

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

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GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

01/26/2012

Larry Bates  
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

**Khan, Annie (DPH)**

---

**From:** Khan, Annie (DPH)  
**Sent:** Thursday, January 12, 2012 12:12 PM  
**To:** Bates, Larry (SUF); Corbett, Kate (DPH)  
**Subject:** RE: Lab Notes and Summons BMC Docket Number [REDACTED]

Hi Larry,

Hope this email finds you well.

Upon reviewing this case, the Lab#s may be incorrect.

At your convenience, could you please check if these are the correct Lab#s?

Sorry for the inconvenience.

Thanks.

Annie  
Drug Analysis Lab  
617-983-6622 (work)  
617-983-6625 (fax)

Lab#

Process of  
elimination  
ASD

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**From:** Bates, Larry (SUF)  
**Sent:** Wednesday, January 11, 2012 2:58 PM  
**To:** Khan, Annie (DPH); Corbett, Kate (DPH)  
**Subject:** Lab Notes and Summons BMC Docket Number [REDACTED] case

Greetings Once More

Attached please find a summons for your appearance on the above given case at BMC for Feb 15.

Request is also made for you forward a copy of lab notes for case number [REDACTED] and should you not be able to attend the court date, please notify me. Lastly, thank you for your assistance.

Larry Bates

1/26/2012

Folk\_OIG\_PRR\_068787

## Curriculum Vitae

Annie Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry

Minor: Economics

### Experience:

2003 – present

#### Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Writing of the Standard Operating Procedures (SOPs) and Protocols.

\*Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.

\*Maintenance and repairs of analytical instruments.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health.

\*Notary Public.

2001 – 2003

#### QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.

\*Method Development for creating new techniques for the QC Dept. and FDA.

\*Writing, revising and reviewing the Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Courses:

#### Department of Justice – Forensics Professionals

Introduction to Forensic Drug Chemistry

Chemical Spot Test and Mechanism for Illicit Drugs

Forensic Mass Spectrometry

Forensic Science 101: An Introduction

Fundamentals of Forensic Questioned Documents

Perspectives in Expert Testimony

Evidence Analysis

Ethics in Forensic Science

Transition to Leadership

Fundamentals of Forensic Toxicology

### Additional Trainings:

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectrum One.

Ultraviolet-Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

### Associations:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Kate A. Corbett

### Education

**Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

### Employment

**Chemist II** State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

**Chemist I** State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

**Research Associate** (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

**Intern** (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



DRUG RECEIPT

CC # \_\_\_\_\_  
BOOK # \_\_\_\_\_  
PAGE # \_\_\_\_\_  
DESTRUCTION # \_\_\_\_\_

District/Unit D-4 DCU  
Name & Rank of Arresting Officer Sgt. Det. Keenan ID# 10652

| DEFENDANT'S NAME | ADDRESS | CITY | STATE |
|------------------|---------|------|-------|
| [REDACTED]       |         |      |       |

| DESCRIPTION OF ITEMS SUBMITTED  | GROSS QUANTITY | LAB USE ONLY |                 |
|---------------------------------|----------------|--------------|-----------------|
|                                 |                | GROSS WEIGHT | ANALYSIS NUMBER |
| White rock (crack cocaine)      | 2 p/b's        | 4.36g        | [REDACTED]      |
| White pills (800 mg Gabapentin) | 40 pills       | 20.27g       |                 |
| Tan powder (Heroin)             | 46 G/B's       | 57.89g       |                 |
|                                 |                |              |                 |
|                                 |                |              |                 |
|                                 |                |              |                 |
|                                 |                |              |                 |
|                                 |                |              |                 |
|                                 |                |              |                 |
|                                 |                |              |                 |

To be completed by ECU personnel only

Name and Rank of Submitting Officer Sybil White ID# 11069  
Received by [Signature] Date 2-3-11  
ECU Control # \_\_\_\_\_

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. SYBIL WHITE  
Def: [REDACTED]

Date Analyzed: 2/10/11

Amount:  
No. Cont: 2 Cont: pb  
Date Rec'd: 02/03/2011  
Gross Wt.: 4.36

Subst: SUB

No. Analyzed: 1  
Net Weight: 0.16

# Tests: 6 ASD  
• 20AT

Prelim: cocaine (E)

Findings: Cocaine

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. SYBIL WHITE  
Def: [REDACTED]

Date Analyzed: 03-26-11

Amount: 40.0  
No. Cont: 1 Cont: pb  
Date Rec'd: 02/03/2011  
Gross Wt.: 20.29

Subst: TAB

No. Analyzed:  
Net Weight:

# Tests: 1A TL  
ASD

Prelim: E

Findings: gabapentin

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. SYBIL WHITE  
Def: [REDACTED]

Date Analyzed: 2/16/11

Amount:  
No. Cont: 46 Cont: gb  
Date Rec'd: 02/03/2011  
Gross Wt.: 57.89

Subst: SUB

No. Analyzed: 5  
Net Weight: 0.86

# Tests: 25 ASD  
• 10KAC

Prelim: Heroin

Findings: Heroin

SAMPLE # [REDACTED] AGENCY Boston ANALYST ASJ

Evidence Wt.

Net Wt: 0.1646

## Mecke's

DATE 2-10-11

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST AD

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

40 white oval tablet  
in 1 pb

Gross Wt ( ):           

Gross Wt ( ):           

Pkg. Wt:           

Net Wt: 51.2238

84444 800

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( )           

Marquis           

Froehde's           

Mecke's           

### Microcrystalline Tests

Gold  
Chloride           

TLTA ( )           

### OTHER TESTS

Monomer 9 (P)

## PRELIMINARY TEST RESULTS

RESULTS gabapentin

DATE 3-26-11

## GC/MS CONFIRMATORY TEST

RESULTS           

MS  
OPERATOR           

DATE



## Drug Information

**DRUG NAME:** GABAPENTIN

**INGREDIENTS:** GABAPENTIN -- 800 MG

**Color:** White

**Shape:** Oval

**Imprint:** 4444 The tablet is debossed with a hourglass logo and 4444 on one side and 800 on the reverse side. , Hourglass 4444 800 The tablet is debossed with a hourglass logo and 4444 on one side and 800 on the reverse side. , 800

**Form:** Oral Tablet

**Available-Container-Size:** Bottle of 100 , Bottle of 500 , Strip of 100 , Bottle of 1000

**AAPCC Code:** 077730 - Other Types of Anticonvulsant (Excluding Barbiturates)

**NDC:** 0093-4444-01

0093-4444-05

0172-4444-60

0172-4444-70

0172-4444-10

**Excipients:** Lactose (Monohydrate) ; Cellulose, Microcrystalline ; Polyethylene Glycol

**Regulatory Status:** RX

**Availability:** United States

**Product ID** 6738350

**Contact:** Teva Pharmaceuticals

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# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST ADD

No. of samples tested: 5

Evidence Wt. 1

## PHYSICAL DESCRIPTION:

Beige powdered substance  
in 46 gbs

1 gb empty → not weighed.

Gross Wt (45): 9.7000

Gross Wt (5): 1.0902

Pkg. Wt: \_\_\_\_\_

Net Wt: \_\_\_\_\_

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
S Thiocyanate ( + ) \_\_\_\_\_  
S Marquis + \_\_\_\_\_  
S Froehde's + \_\_\_\_\_  
S Mecke's + \_\_\_\_\_

### Microcrystalline Tests

Gold  
Chloride \_\_\_\_\_  
TLTA ( ) \_\_\_\_\_

### OTHER TESTS

SGC+  
\_\_\_\_\_  
\_\_\_\_\_

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 2-08-11

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR ICAC

DATE 2-16-11

Sample #: [REDACTED]

# samples tested: 5

| #  | Gross Weight | Packet Weight | Net Weight | #  | Gross Weight | Packet Weight | Net Weight |
|----|--------------|---------------|------------|----|--------------|---------------|------------|
| 1  | 0.2137       | 0.1957        | 0.0180     | 26 |              |               |            |
| 2  | 0.2143       | 0.2007        | 0.0136     | 27 |              |               |            |
| 3  | 0.2164       | 0.1989        | 0.0175     | 28 |              |               |            |
| 4  | 0.2311       | 0.2021        | 0.0290     | 29 |              |               |            |
| 5  | 0.2227       | 0.2063        | 0.0164     | 30 |              |               |            |
| 6  |              |               |            | 31 |              |               |            |
| 7  |              |               |            | 32 |              |               |            |
| 8  |              |               |            | 33 |              |               |            |
| 9  |              |               |            | 34 |              |               |            |
| 10 |              |               |            | 35 |              |               |            |
| 11 |              |               |            | 36 |              |               |            |
| 12 |              |               |            | 37 |              |               |            |
| 13 |              |               |            | 38 |              |               |            |
| 14 |              |               |            | 39 |              |               |            |
| 15 |              |               |            | 40 |              |               |            |
| 16 |              |               |            | 41 |              |               |            |
| 17 |              |               |            | 42 |              |               |            |
| 18 |              |               |            | 43 |              |               |            |
| 19 |              |               |            | 44 |              |               |            |
| 20 |              |               |            | 45 |              |               |            |
| 21 |              |               |            | 46 |              |               |            |
| 22 |              |               |            | 47 |              |               |            |
| 23 |              |               |            | 48 |              |               |            |
| 24 |              |               |            | 49 |              |               |            |
| 25 |              |               |            | 50 |              |               |            |

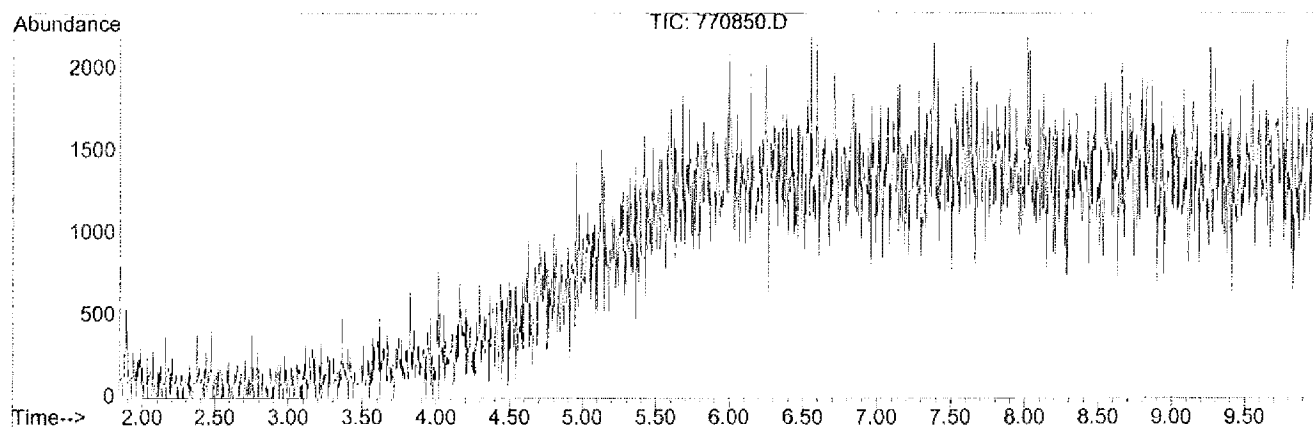
Calculations:

$$\begin{aligned} \text{Est Net wt} &= 0.0945 / 5 = 0.0189(46) \\ &= 0.8694 \end{aligned}$$

VKHC  
1/25/12

## Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770850.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 21:22  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE



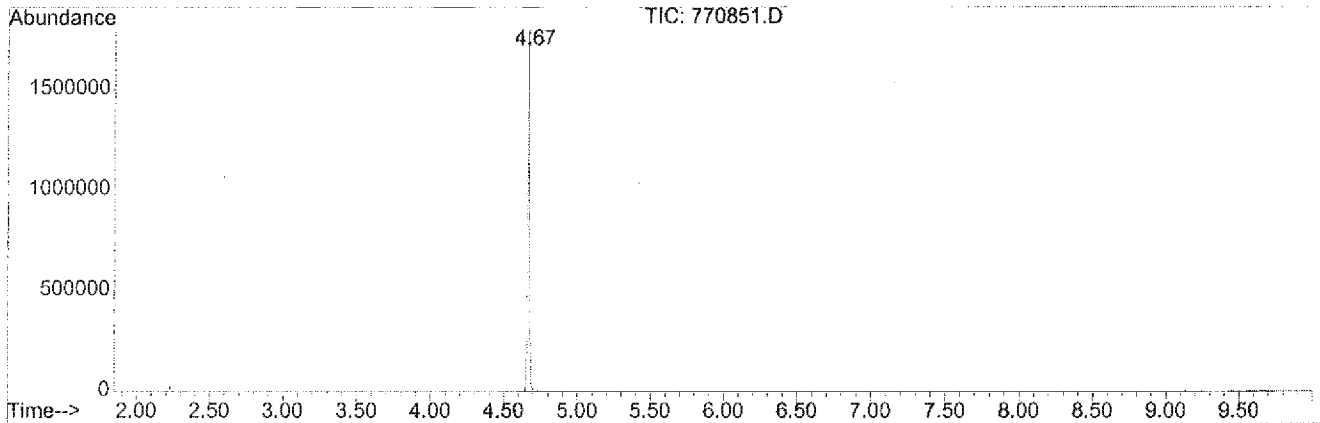
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|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770851.D  
 Operator : SLD  
 Date Acquired : 9 Feb 2011 21:35  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 51  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.666     | 1636731 | 100.00 | 100.00  |

# Area Percent / Library Search Report

**Information from Data File:**

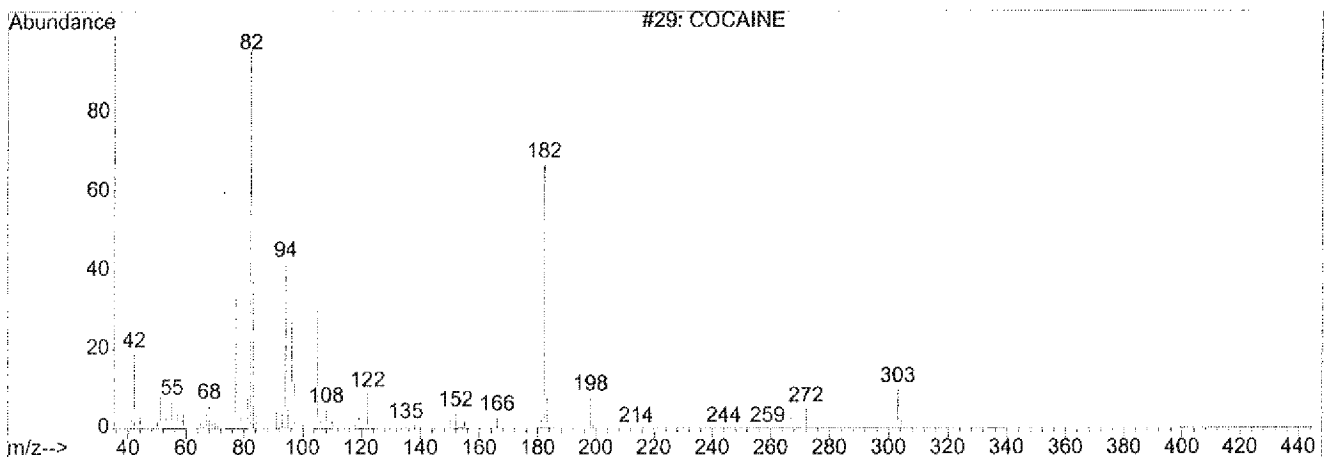
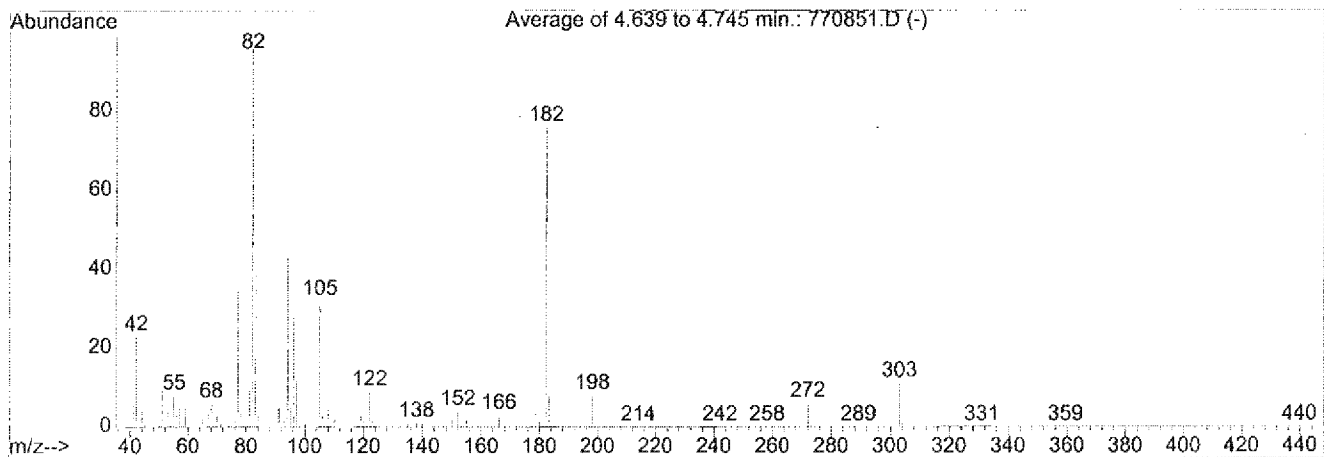
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File Name       : D:\SYSTEM4\02_09_11\770851.D
Operator        : SLD
Date Acquired   : 9 Feb 2011 21:35
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 51
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.67 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |



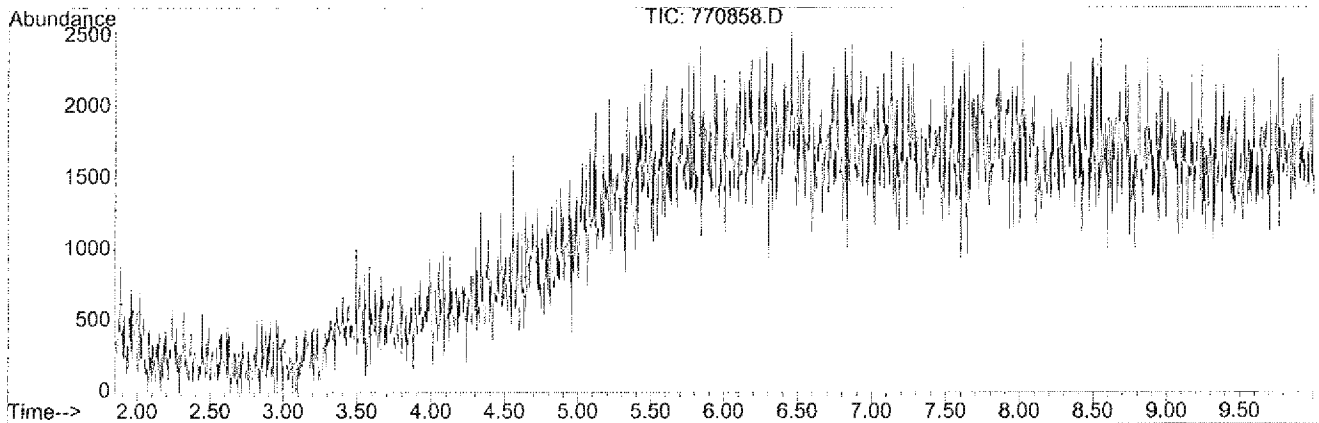
# Area Percent / Library Search Report

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## Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770858.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 23:12  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

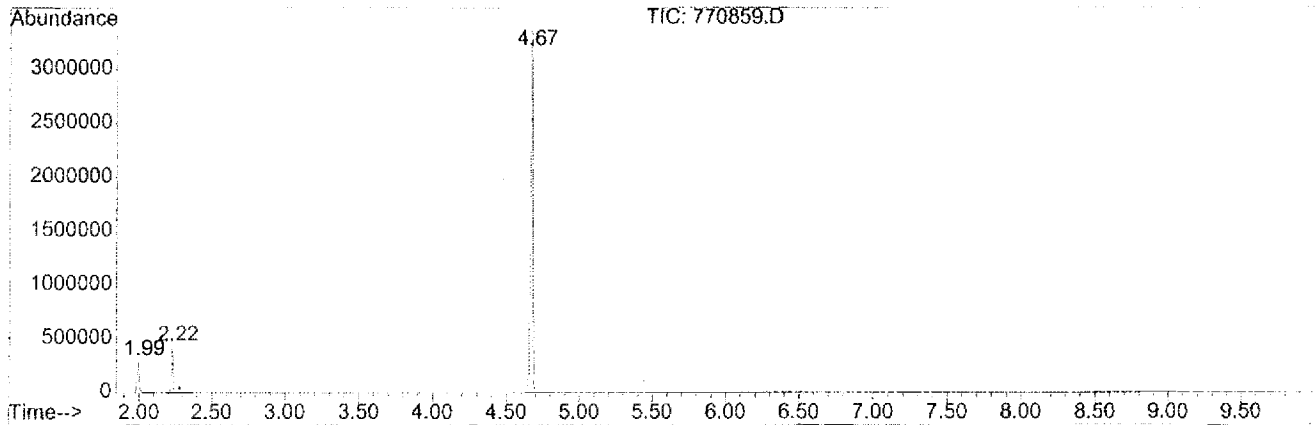
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770859.D  
 Operator : SLD  
 Date Acquired : 9 Feb 2011 23:26  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 59  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 1.992     | 295989  | 6.99   | 8.31    |
| 2.225     | 372895  | 8.81   | 10.46   |
| 4.668     | 3563840 | 84.20  | 100.00  |



# Area Percent / Library Search Report

**Information from Data File:**

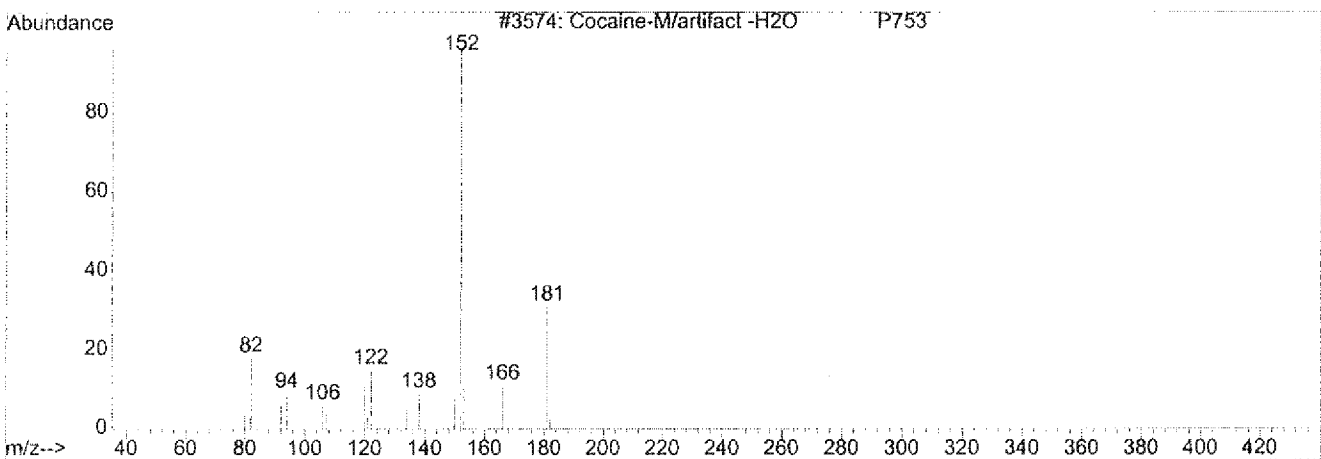
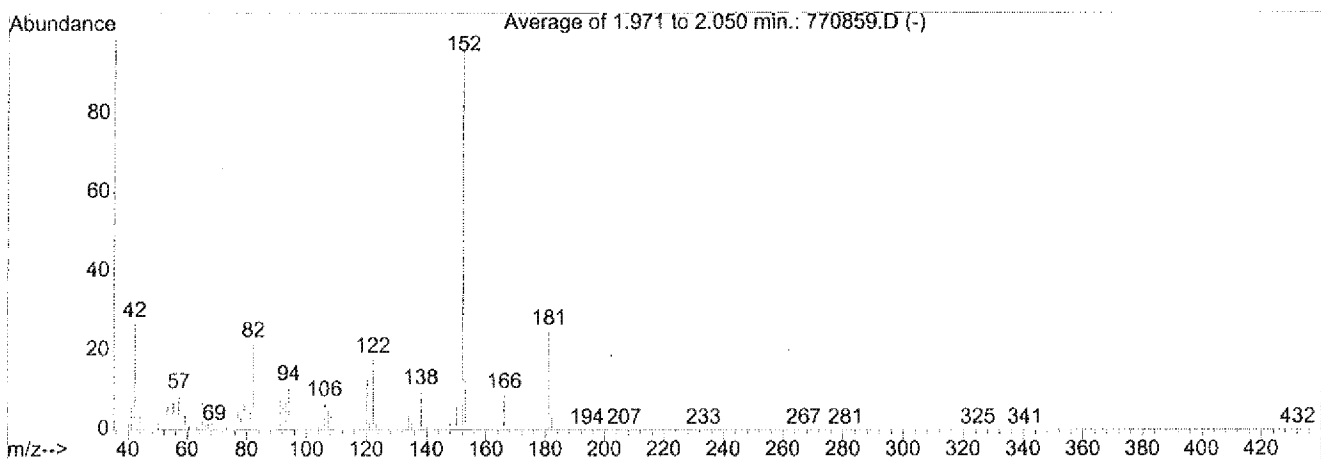
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File Name       : D:\SYSTEM4\02_09_11\770859.D
Operator        : SLD
Date Acquired   : 9 Feb 2011 23:26
Sample Name     : 
Submitted by    : ASD
Vial Number     : 59
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

| PK# | RT   | Library/ID                         | CAS#        | Qual |
|-----|------|------------------------------------|-------------|------|
| 1   | 1.99 | C:\DATABASE\PMW_TOX2.L             |             |      |
|     |      | Cocaine-M/artifact -H2O            | 000000-00-0 | 96   |
|     |      | MDA-M (desmethylenyl-methyl-) ME @ | 000000-00-0 | 37   |
|     |      | Metipranolol-M/artifact AC         | 000000-00-0 | 32   |



# Area Percent / Library Search Report

**Information from Data File:**

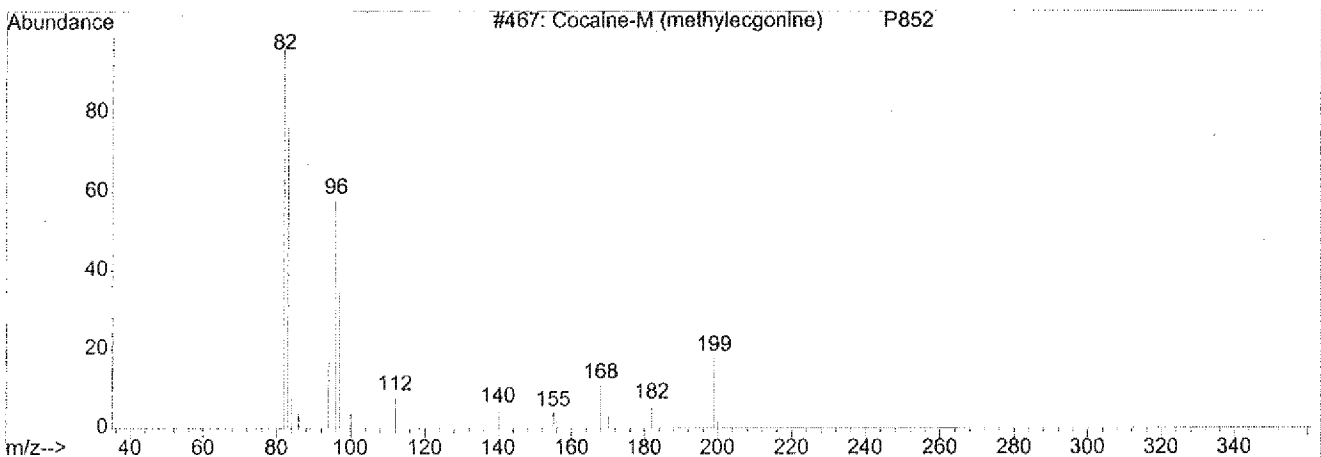
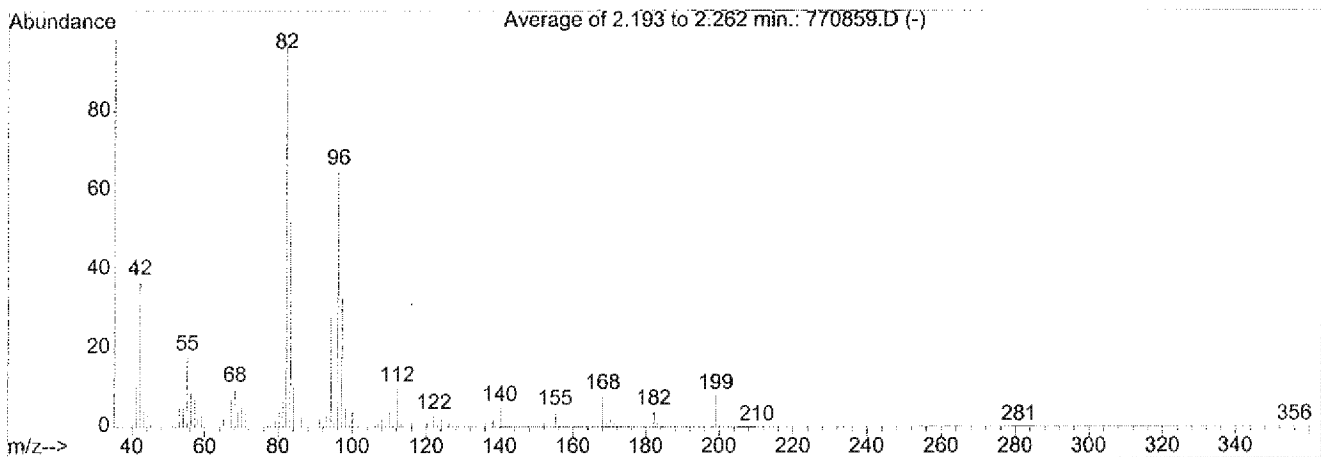
```

File Name       : D:\SYSTEM4\02_09_11\770859.D
Operator        : SLD
Date Acquired   : 9 Feb 2011 23:26
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 59
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

| PK# | RT   | Library/ID                    | CAS#        | Qual |
|-----|------|-------------------------------|-------------|------|
| 2   | 2.22 | C:\DATABASE\PMW_TOX2.L        |             |      |
|     |      | Cocaine-M (methylecgonine)    | 007143-09-1 | 96   |
|     |      | Cocaine                       | 000050-36-2 | 38   |
|     |      | Cocaine-M (methylecgonine) AC | 000000-00-0 | 9    |



# Area Percent / Library Search Report

**Information from Data File:**

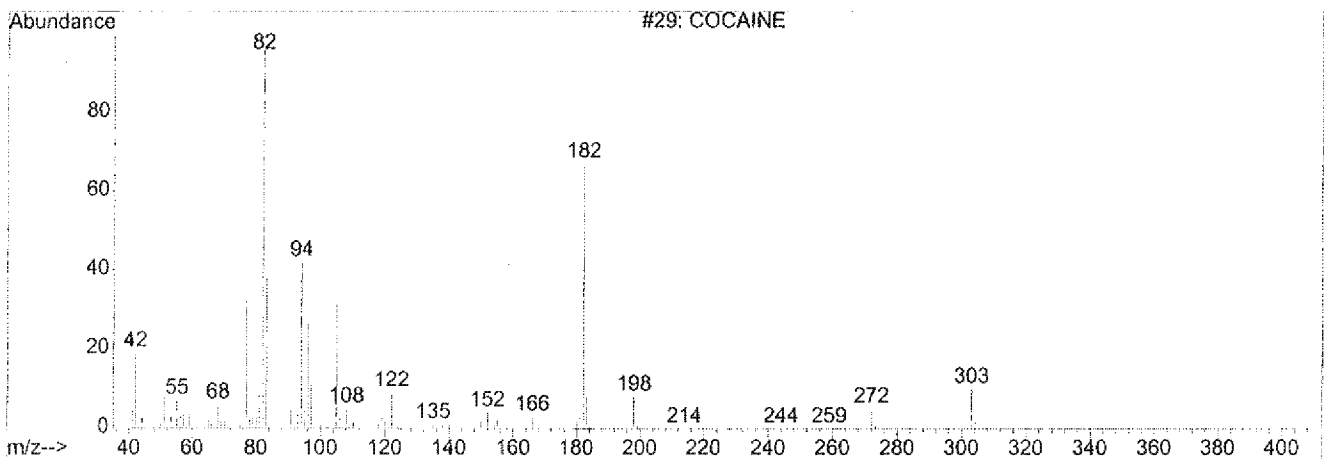
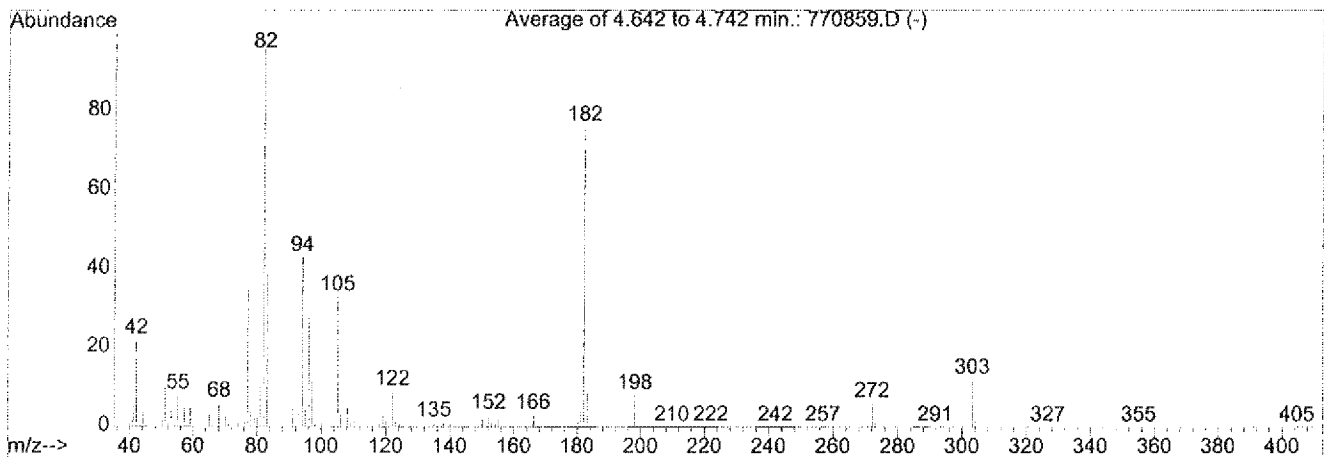
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File Name       : D:\SYSTEM4\02_09_11\770859.D
Operator        : SLD
Date Acquired   : 9 Feb 2011 23:26
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 59
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 3   | 4.67 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |



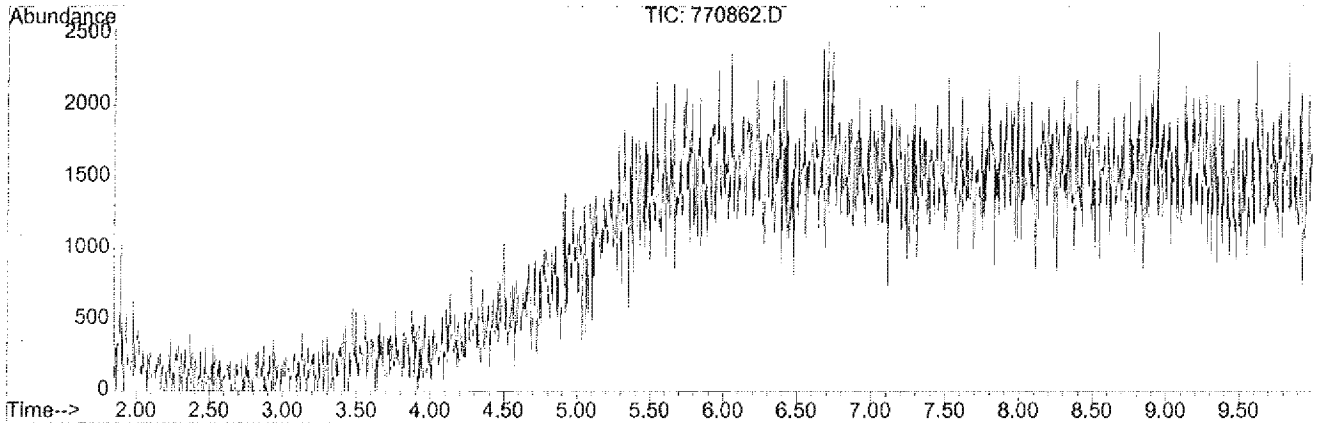
# Area Percent / Library Search Report

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## Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770862.D  
Operator : SLD  
Date Acquired : 10 Feb 2011 00:07  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

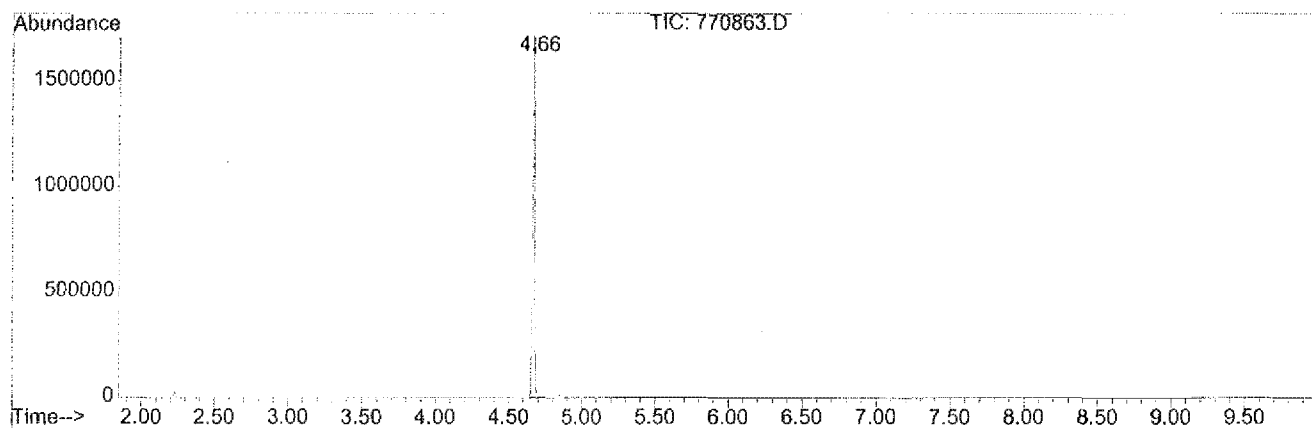
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770863.D  
 Operator : SLD  
 Date Acquired : 10 Feb 2011 00:21  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 51  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.663     | 1728398 | 100.00 | 100.00  |

# Area Percent / Library Search Report

**Information from Data File:**

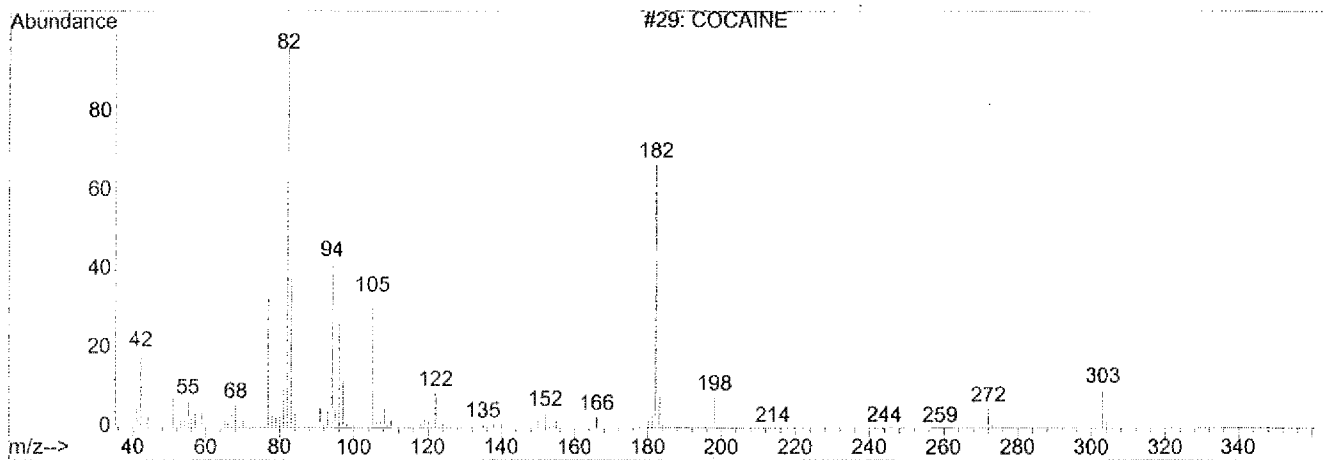
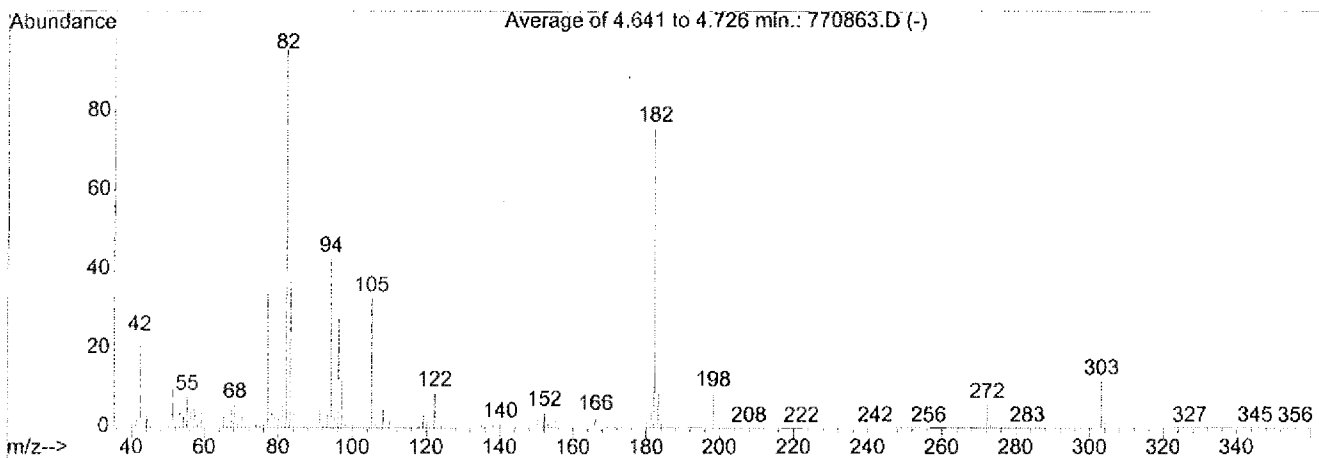
```

File Name       : D:\SYSTEM4\02_09_11\770863.D
Operator        : SLD
Date Acquired   : 10 Feb 2011  00:21
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 51
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

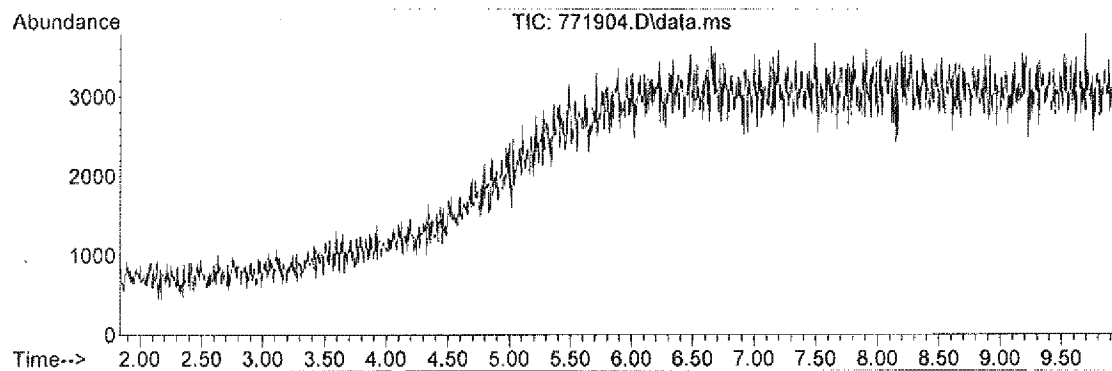
| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.66 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |



✓KAC  
1/25/12

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771904.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 9:25  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

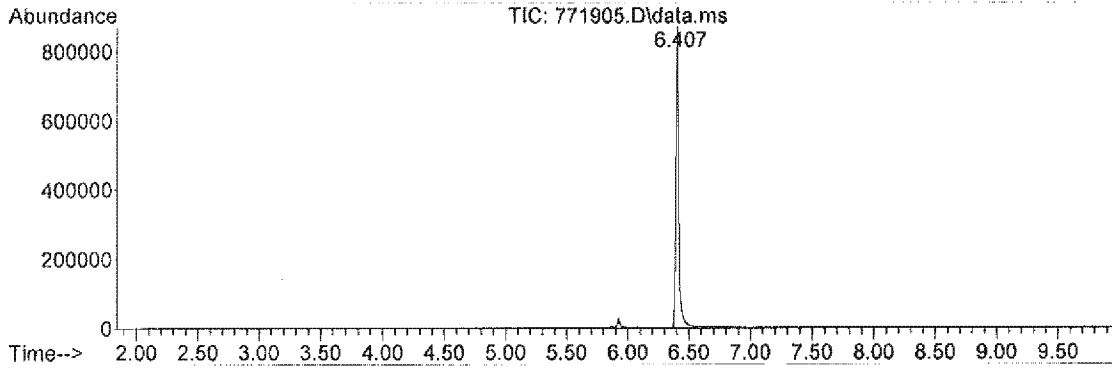


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771905.D  
 Operator : KAC  
 Date Acquired : 15 Feb 2011 9:38  
 Sample Name : HEROIN STD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 6.407     | 1376028 | 100.00 | 100.00  |

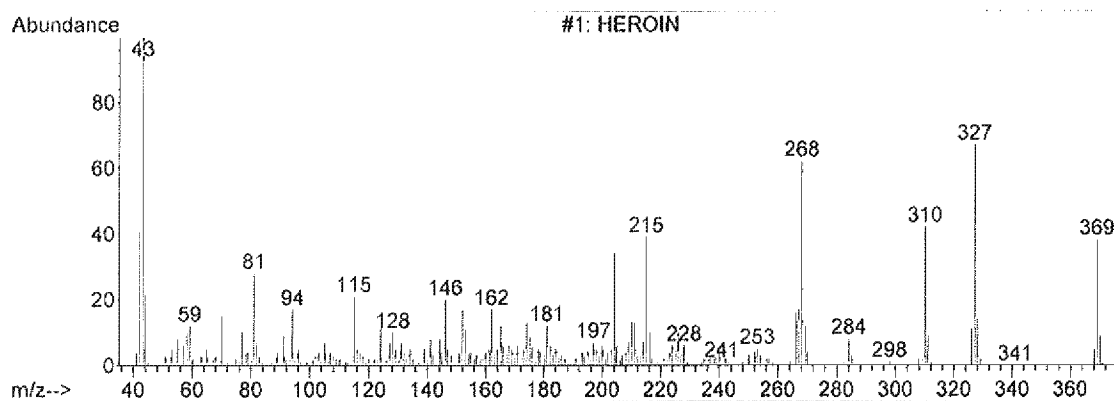
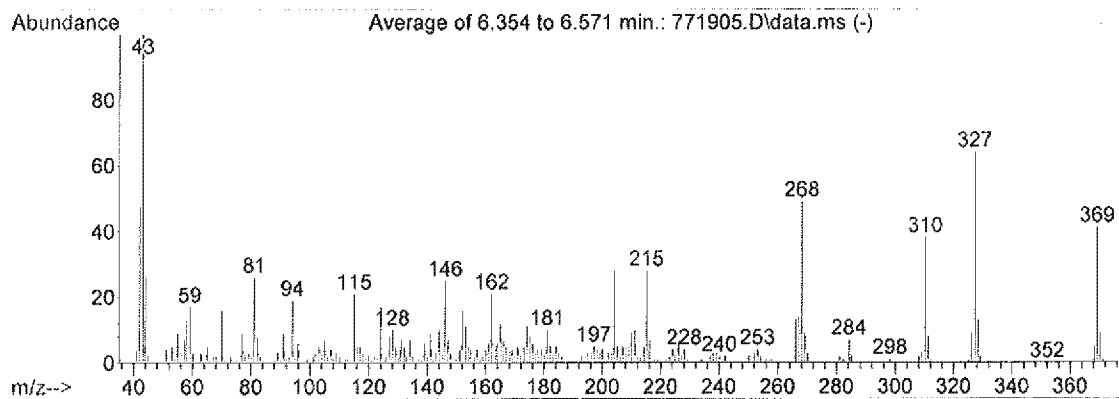


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771905.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 9:38  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

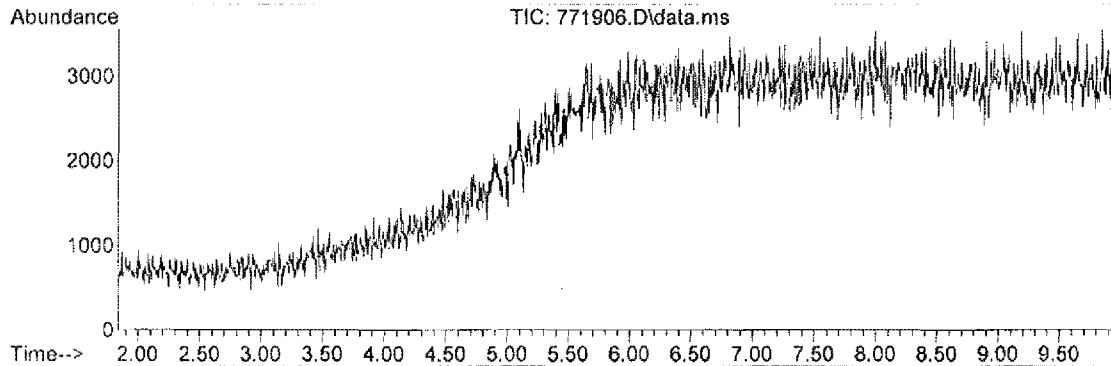
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                  | CAS#        | Qual |
|-----|------|-----------------------------|-------------|------|
| 1   | 6.41 | C:\Database\SLI.L<br>HEROIN | 000561-27-3 | 99   |



## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771906.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 9:51  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

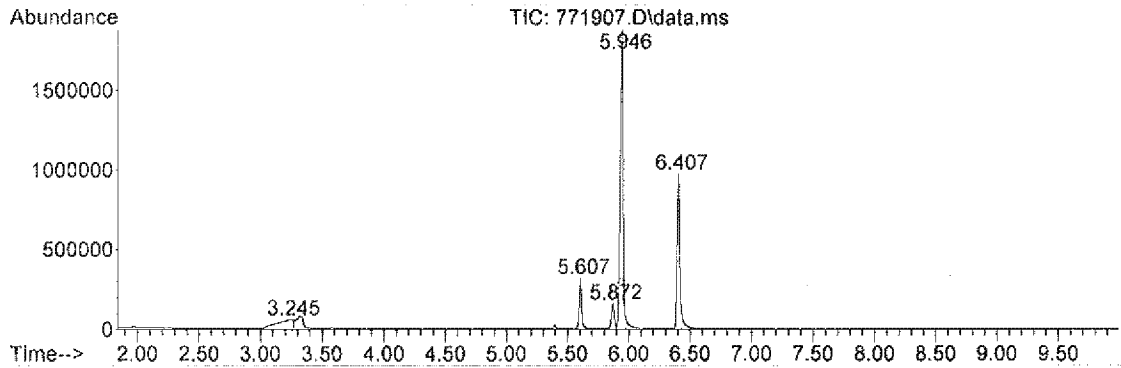


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



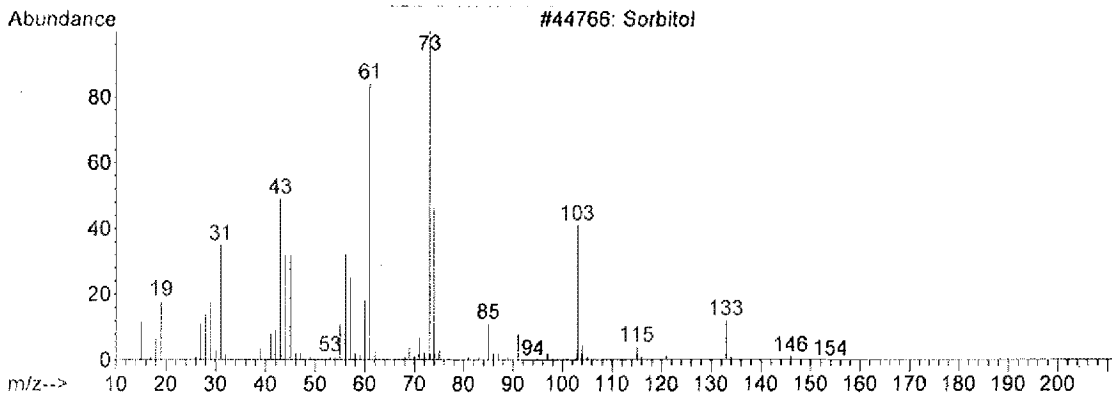
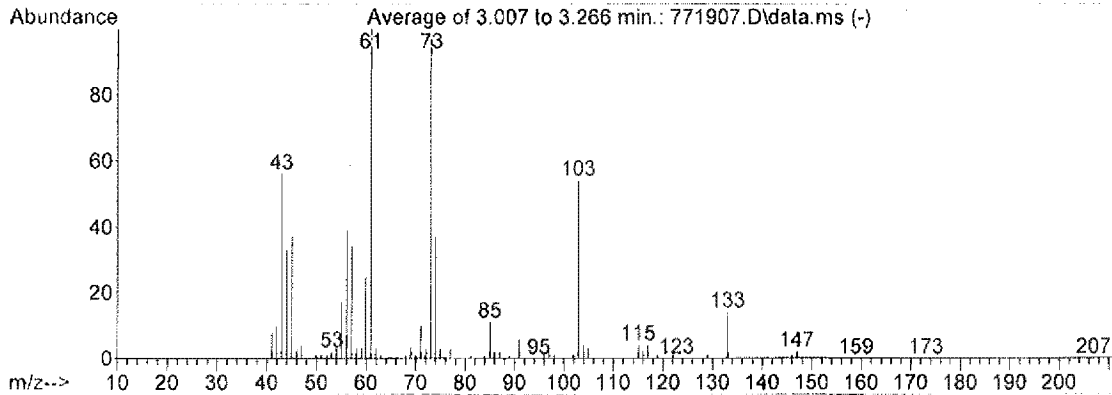
| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.245     | 512102  | 8.71   | 16.45   |
| 5.607     | 440354  | 7.49   | 14.15   |
| 5.872     | 247462  | 4.21   | 7.95    |
| 5.946     | 3112744 | 52.91  | 100.00  |
| 6.407     | 1570135 | 26.69  | 50.44   |

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 1   | 3.25 | C:\Database\NIST05a.L |             |      |
|     |      | Sorbitol              | 000050-70-4 | 87   |
|     |      | Sorbitol              | 000050-70-4 | 86   |
|     |      | Sorbitol              | 000050-70-4 | 80   |

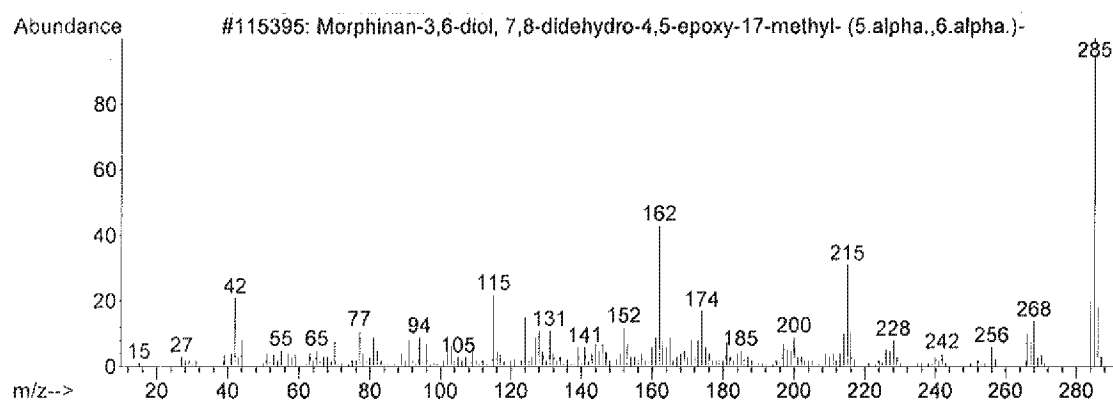
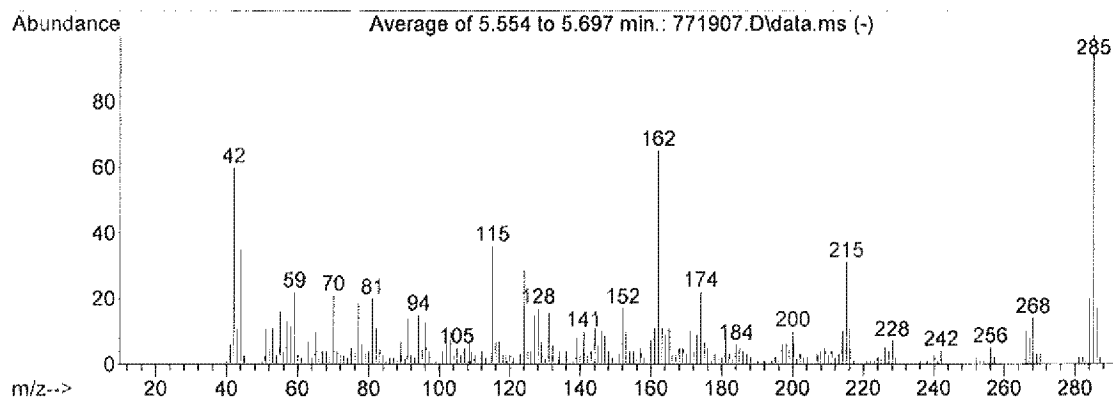


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 2   | 5.61 | C:\Database\NIST05a.L               |             |      |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |

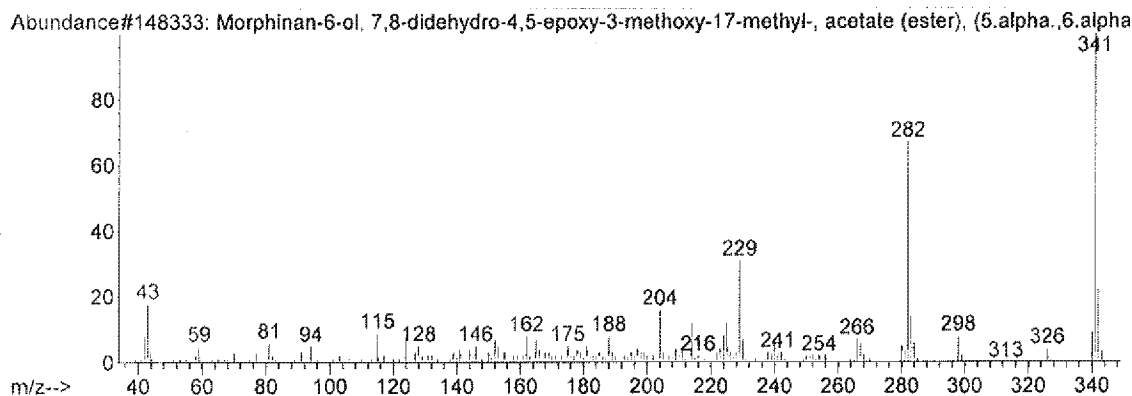
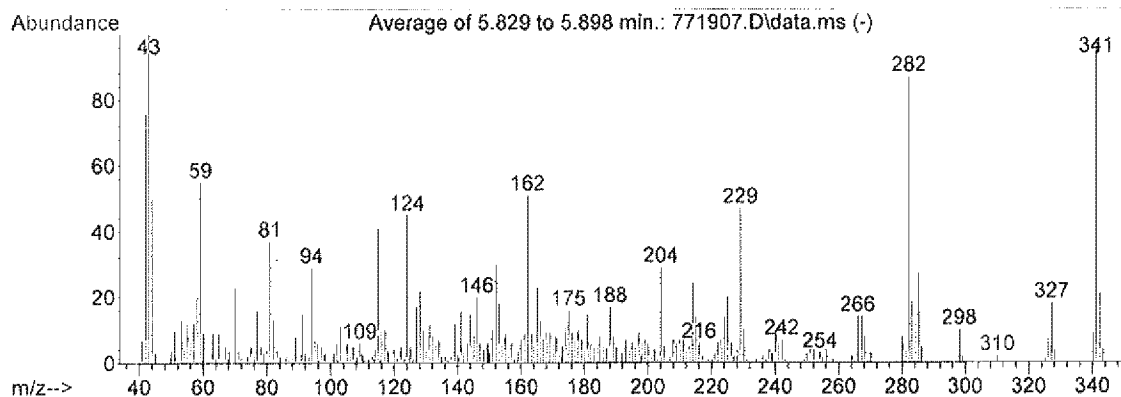


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#         | Qual |
|-----|------|-------------------------------------|--------------|------|
| 3   | 5.87 | C:\Database\NIST05a.L               |              |      |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 97   |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 97   |
|     |      | Morphin, 3-acetyl-                  | 1000153-00-1 | 92   |

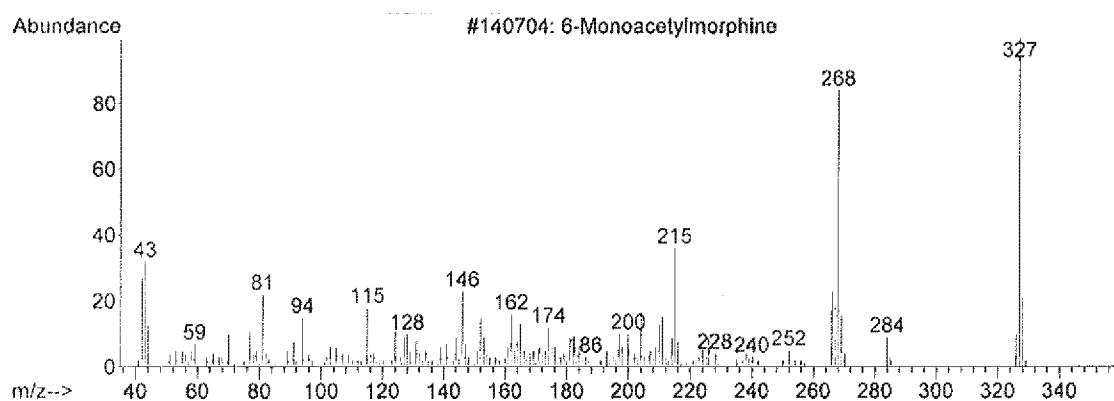
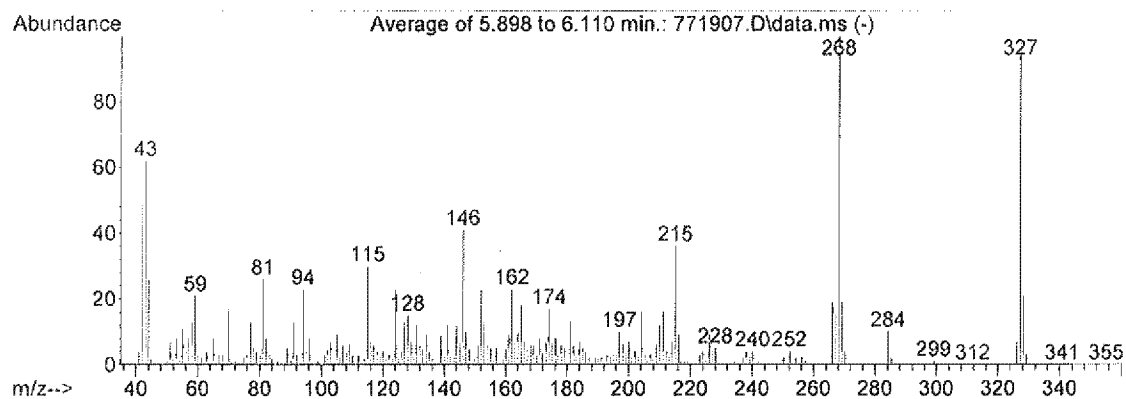


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 4   | 5.95 | C:\Database\NIST05a.L |             |      |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |

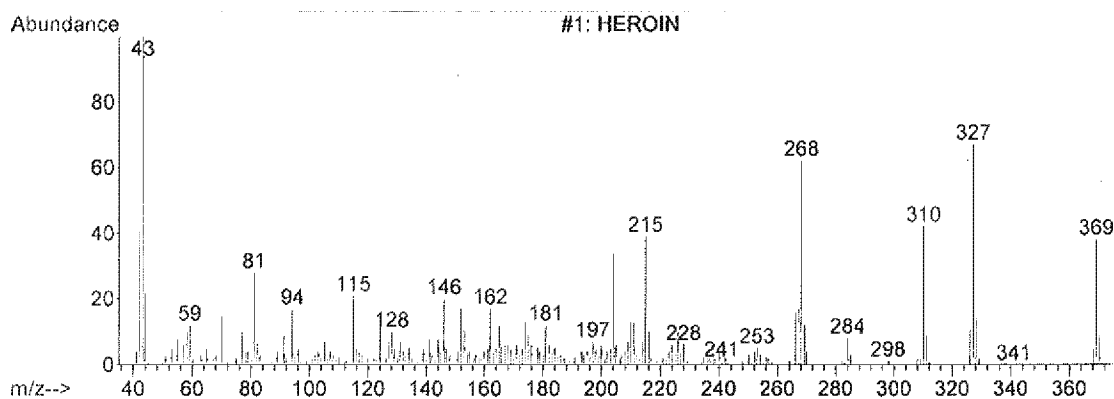
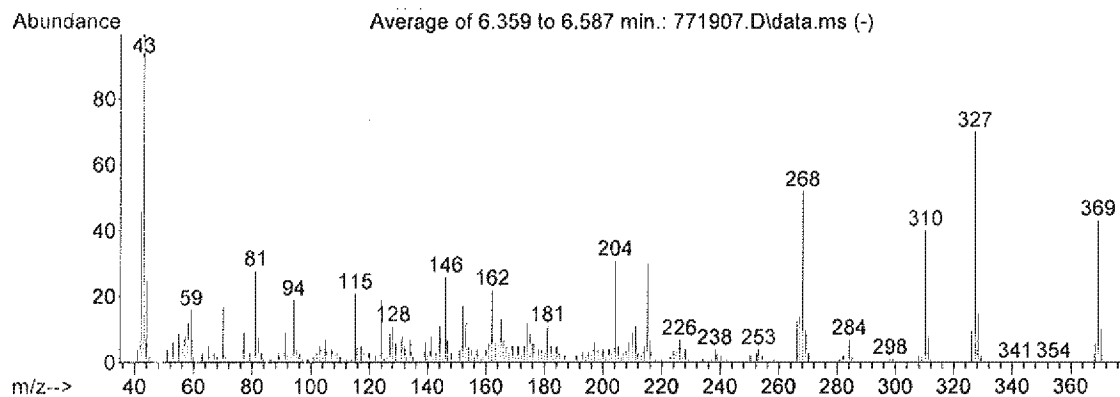


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

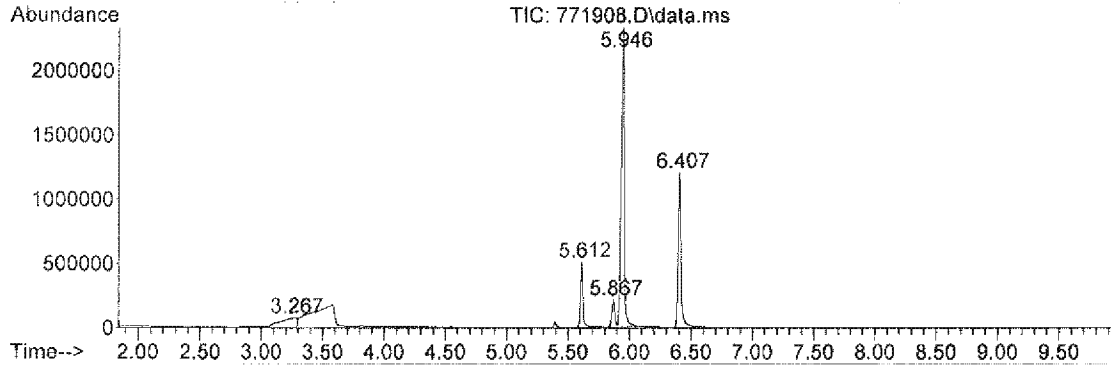
| PK# | RT   | Library/ID                  | CAS#        | Qual |
|-----|------|-----------------------------|-------------|------|
| 5   | 6.41 | C:\Database\SLI.L<br>HEROIN | 000561-27-3 | 99   |





## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



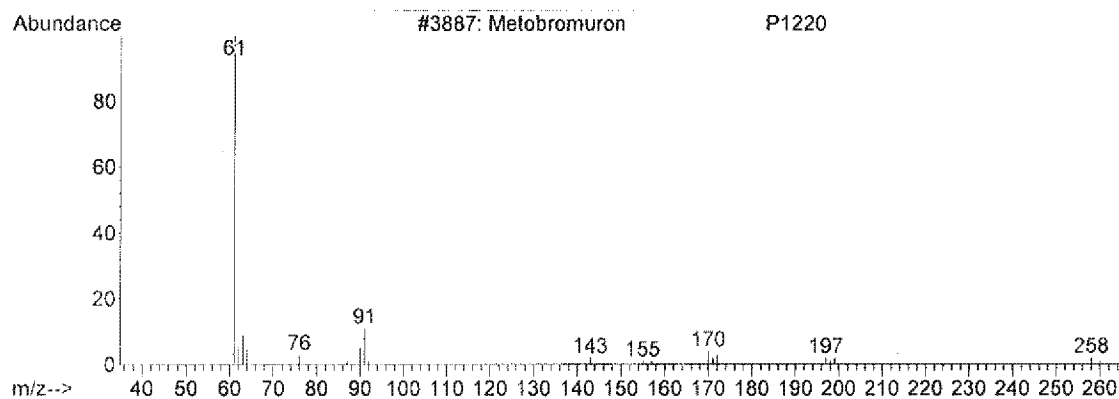
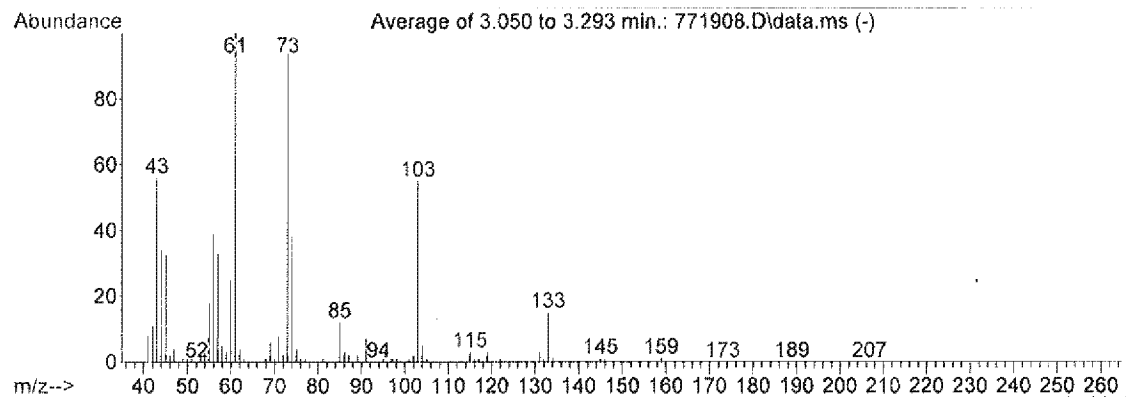
| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.267     | 629037  | 8.12   | 15.08   |
| 5.612     | 699390  | 9.03   | 16.76   |
| 5.867     | 334629  | 4.32   | 8.02    |
| 5.946     | 4172296 | 53.88  | 100.00  |
| 6.407     | 1908470 | 24.65  | 45.74   |

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID             | CAS#        | Qual |
|-----|------|------------------------|-------------|------|
| 1   | 3.27 | C:\Database\PMW_TOX2.L |             |      |
|     |      | Metobromuron           | 003060-89-7 | 4    |
|     |      | Myristic acid          | 000544-63-8 | 2    |
|     |      | Monolinuron            | 001746-81-2 | 2    |

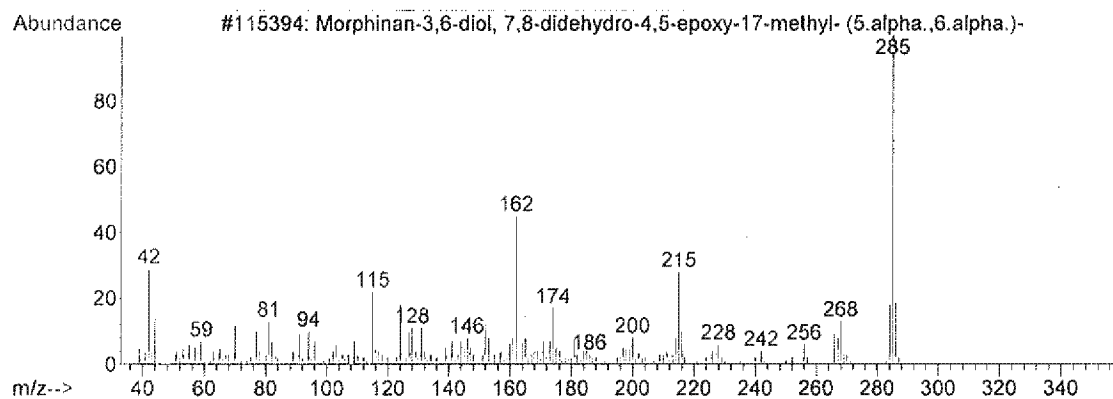
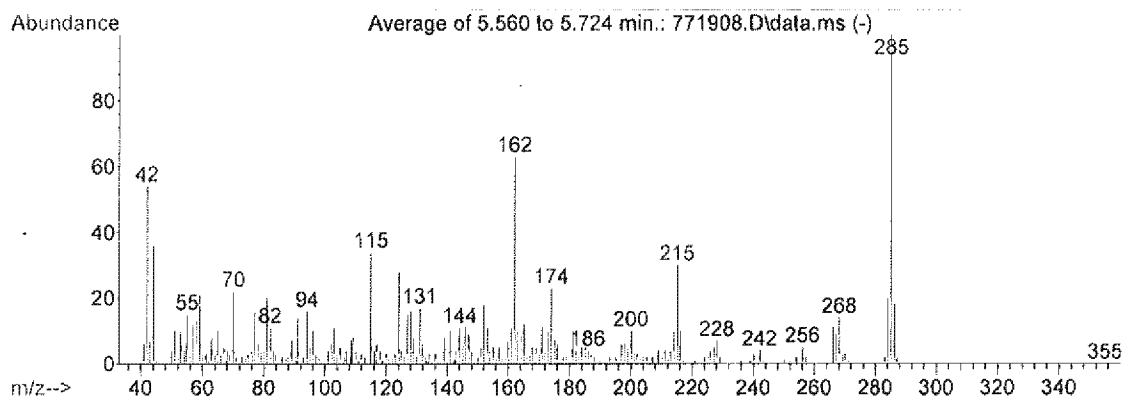


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 2   | 5.61 | C:\Database\NIST05a.L               |             |      |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |

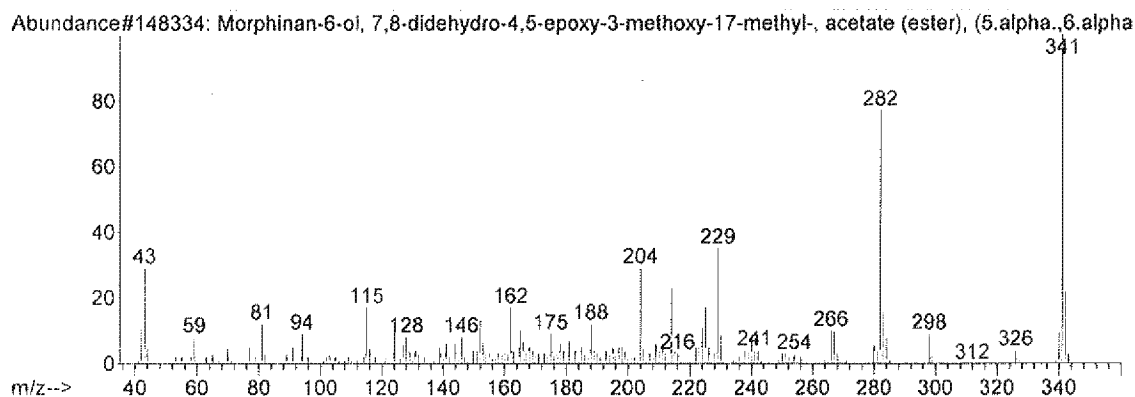
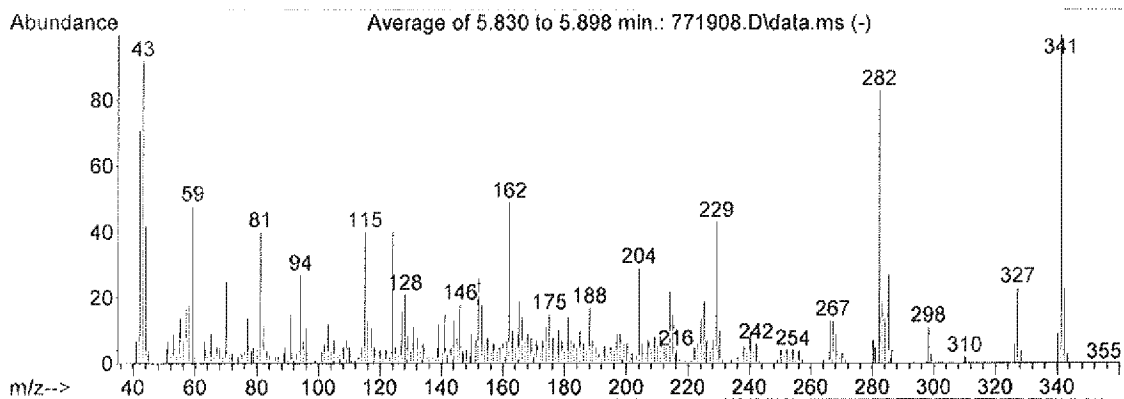


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#         | Qual |
|-----|------|-------------------------------------|--------------|------|
| 3   | 5.87 | C:\Database\NIST05a.L               |              |      |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 99   |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 99   |
|     |      | Acetylcodein                        | 1000153-00-2 | 98   |

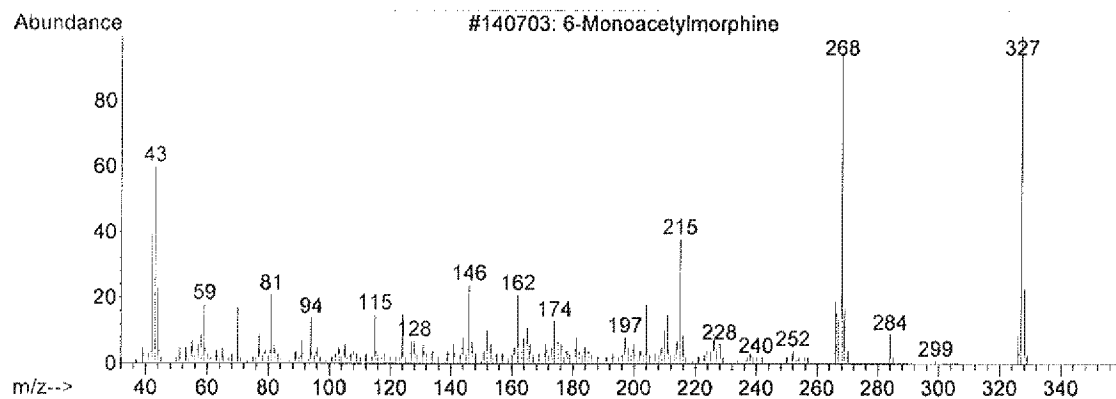
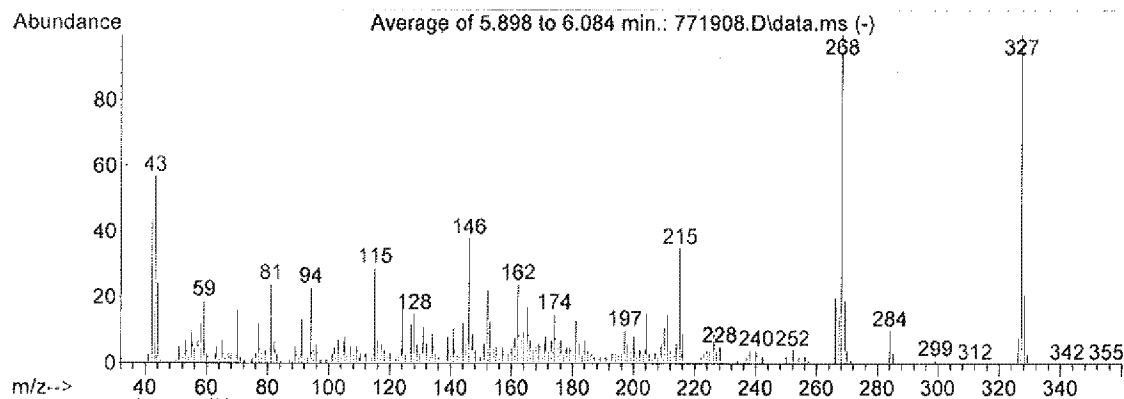


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 4   | 5.95 | C:\Database\NIST05a.L |             |      |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |

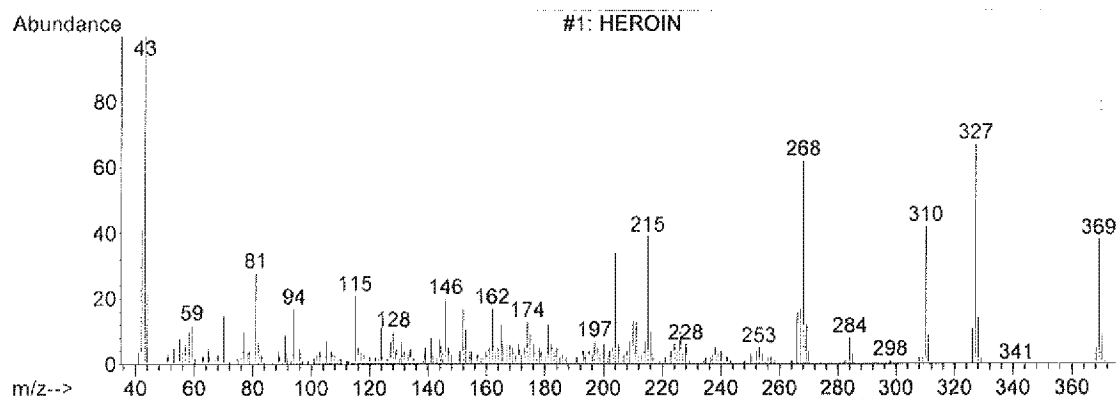
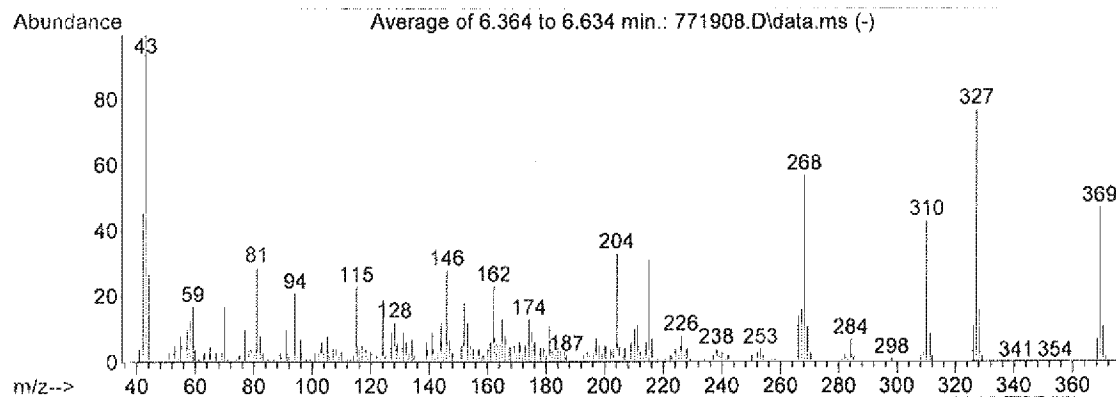


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

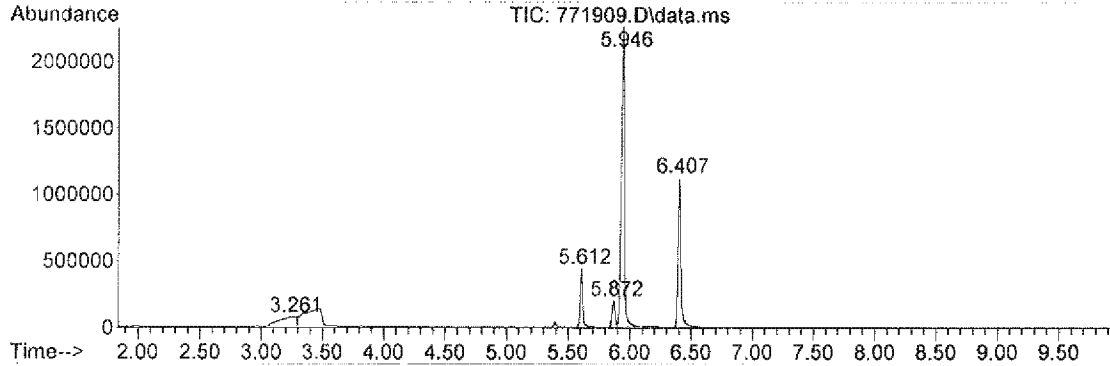
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID        | CAS#        | Qual |
|-----|------|-------------------|-------------|------|
| 5   | 6.41 | C:\Database\SLI.L |             |      |
|     |      | HEROIN            | 000561-27-3 | 99   |
|     |      | JWH-073           | 208987-48-8 | 2    |



## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



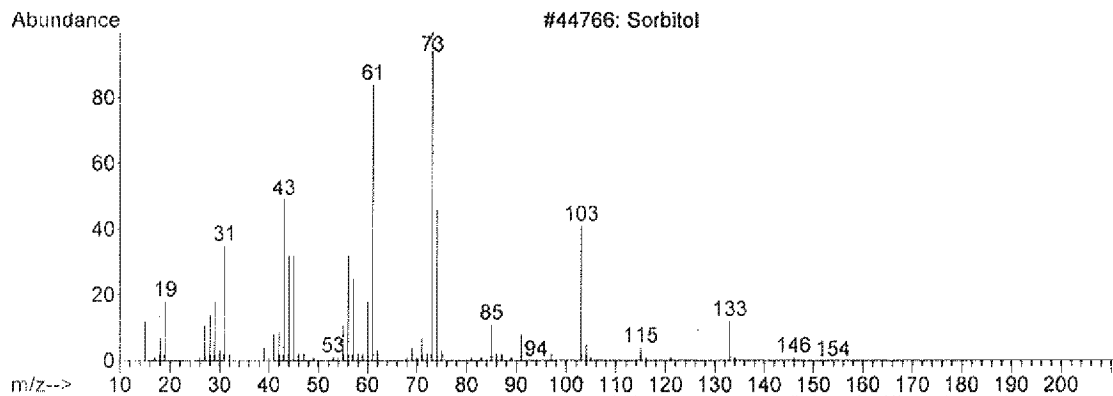
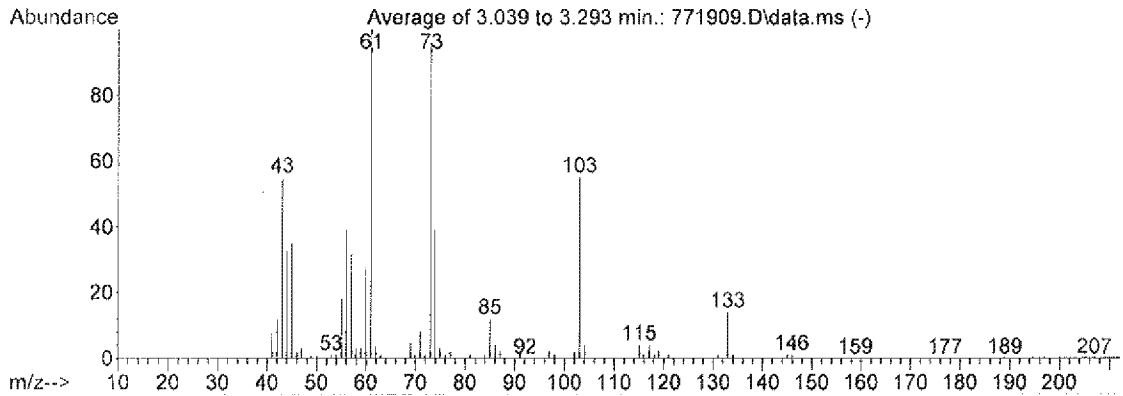
| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.261     | 724023  | 9.61   | 18.01   |
| 5.613     | 634422  | 8.42   | 15.78   |
| 5.872     | 325760  | 4.32   | 8.10    |
| 5.946     | 4020959 | 53.36  | 100.00  |
| 6.407     | 1830160 | 24.29  | 45.52   |

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 1   | 3.26 | C:\Database\NIST05a.L |             |      |
|     |      | Sorbitol              | 000050-70-4 | 87   |
|     |      | D-Mannitol            | 000069-65-8 | 78   |
|     |      | Sorbitol              | 000050-70-4 | 64   |



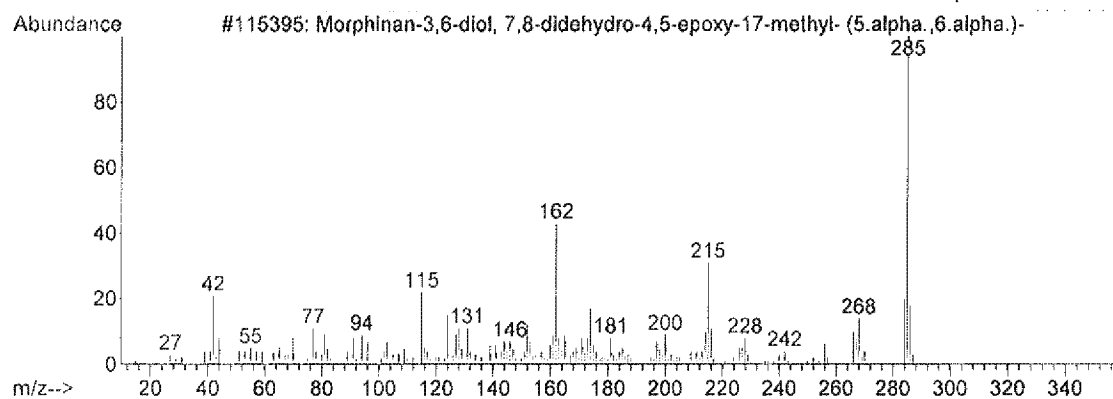
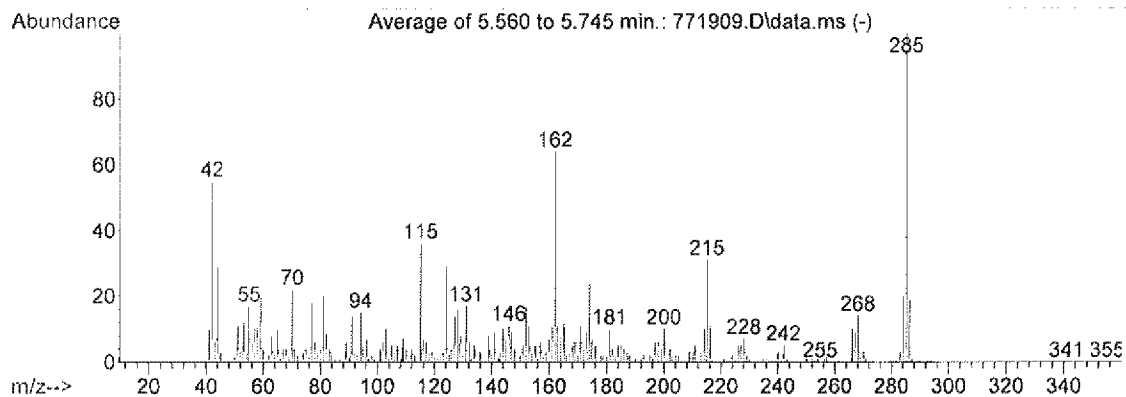


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 2   | 5.61 | C:\Database\NIST05a.L               |             |      |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |

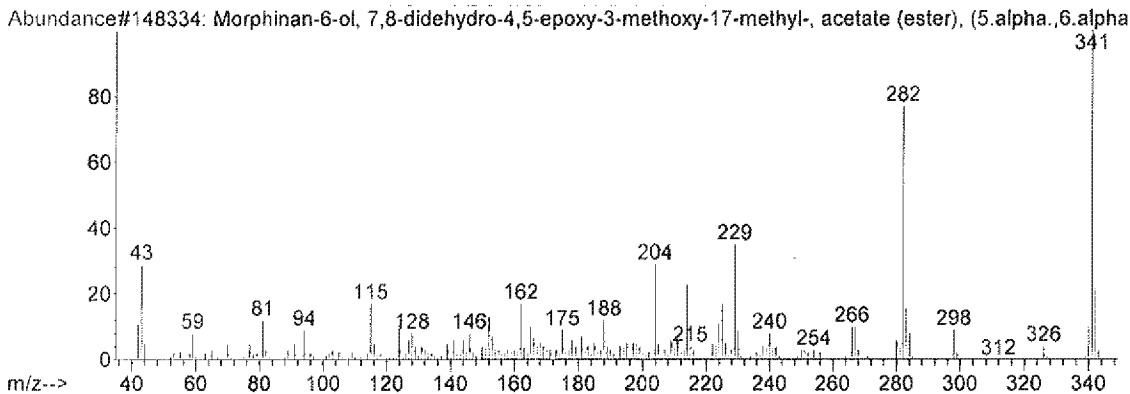
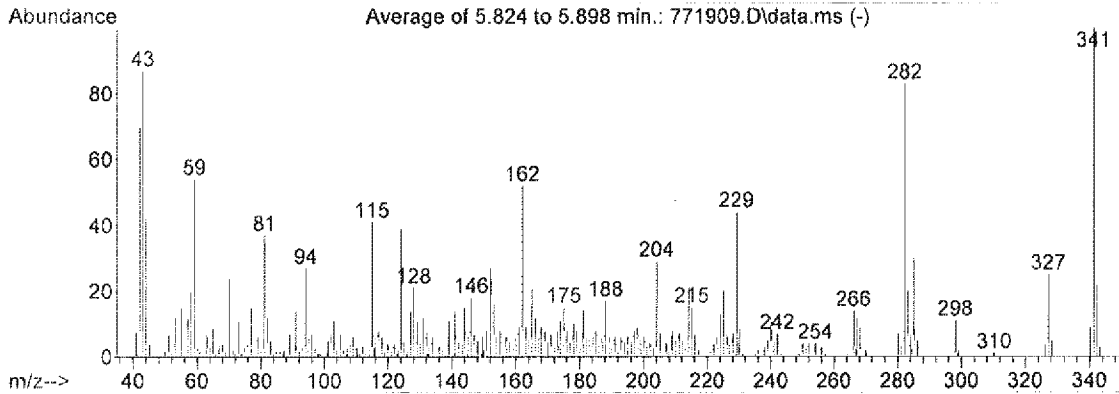


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#         | Qual |
|-----|------|-------------------------------------|--------------|------|
| 3   | 5.87 | C:\Database\NIST05a.L               |              |      |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 99   |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 99   |
|     |      | Acetylcodein                        | 1000153-00-2 | 95   |

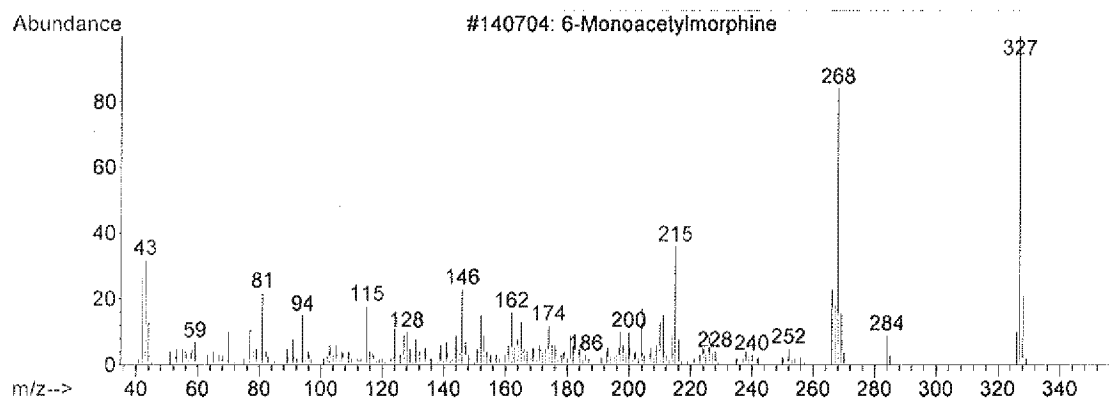
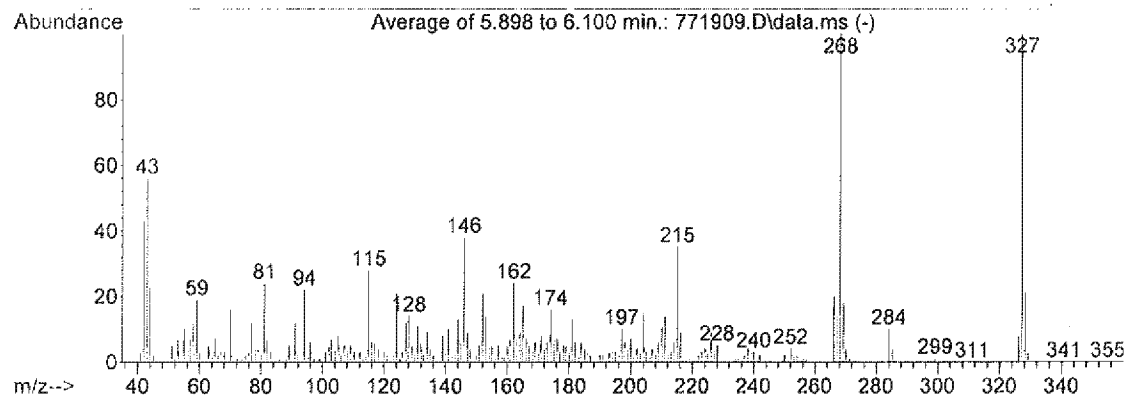


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 4   | 5.95 | C:\Database\NIST05a.L |             |      |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |

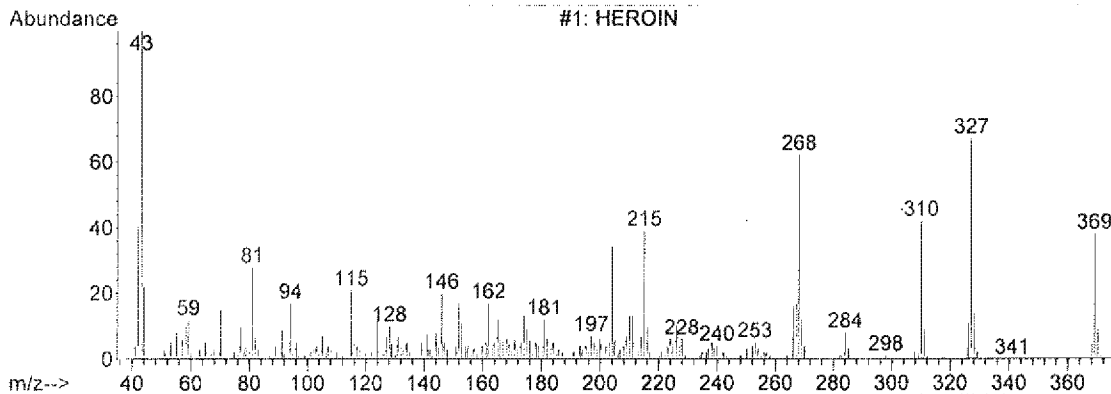
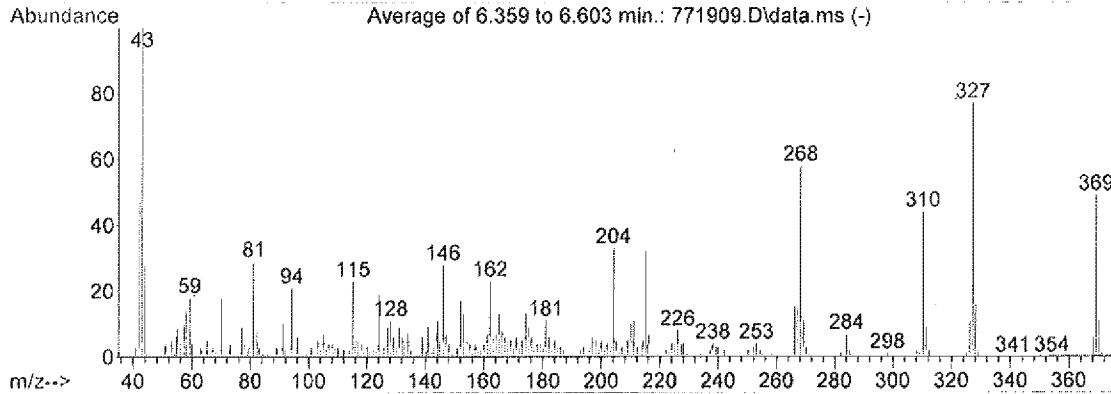


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

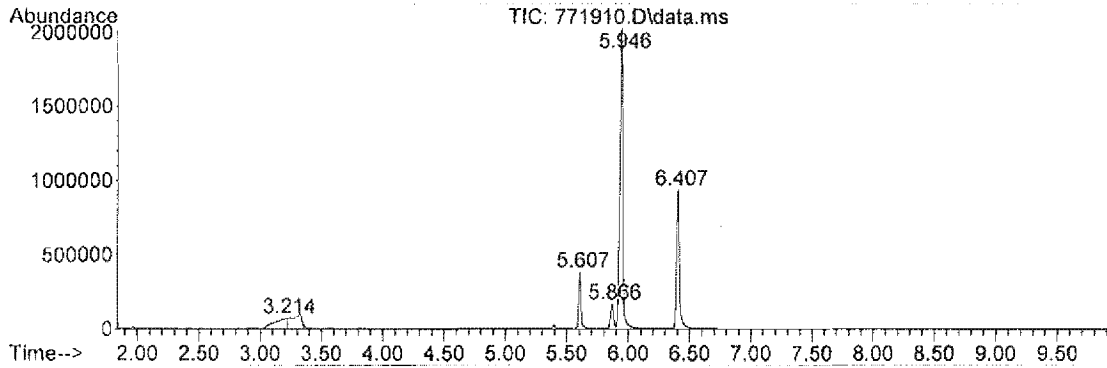
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID        | CAS#        | Qual |
|-----|------|-------------------|-------------|------|
| 5   | 6.41 | C:\Database\SLI.L |             |      |
|     |      | HEROIN            | 000561-27-3 | 99   |
|     |      | JWH-073           | 208987-48-8 | 2    |



## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



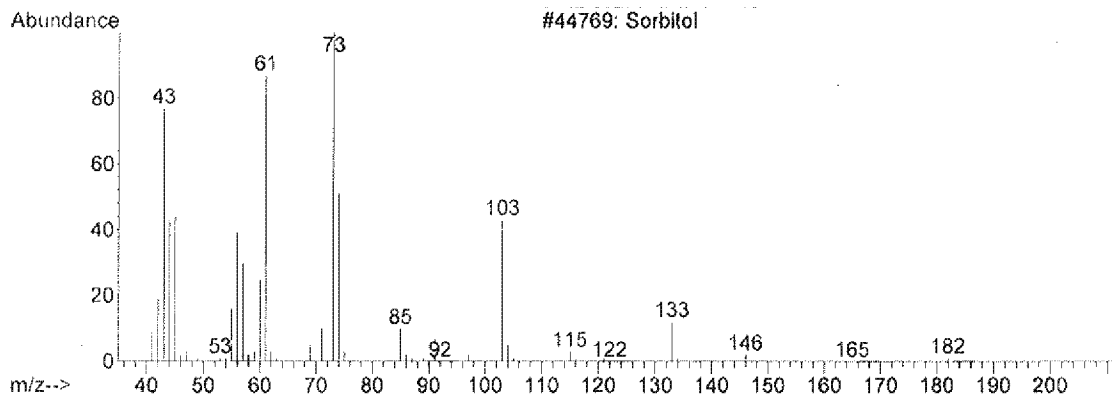
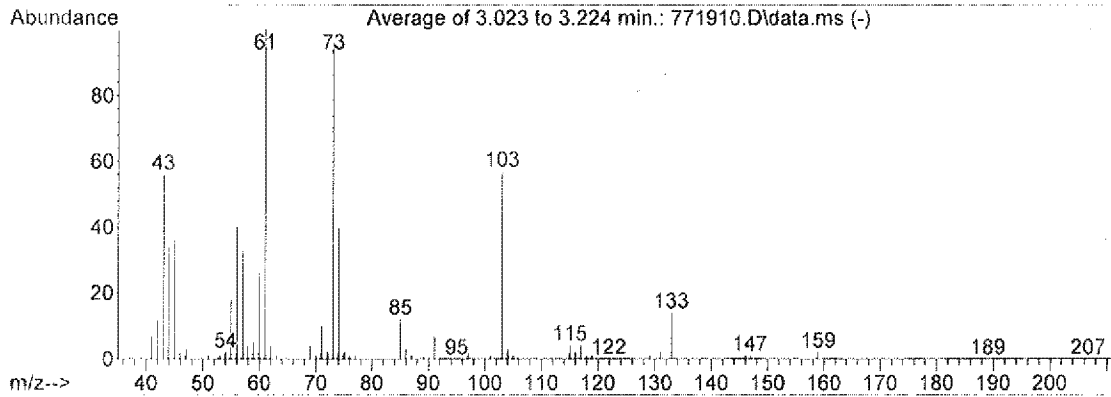
| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.214     | 497068  | 7.96   | 14.52   |
| 5.607     | 526511  | 8.43   | 15.38   |
| 5.866     | 266490  | 4.27   | 7.79    |
| 5.946     | 3422257 | 54.80  | 100.00  |
| 6.407     | 1532774 | 24.54  | 44.79   |

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 1   | 3.21 | C:\Database\NIST05a.L |             |      |
|     |      | Sorbitol              | 000050-70-4 | 80   |
|     |      | Sorbitol              | 000050-70-4 | 72   |
|     |      | Sorbitol              | 000050-70-4 | 72   |

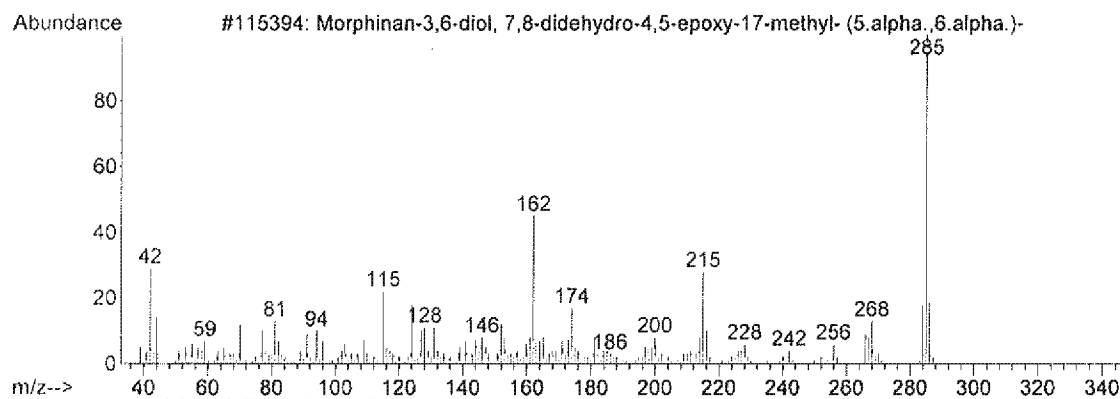
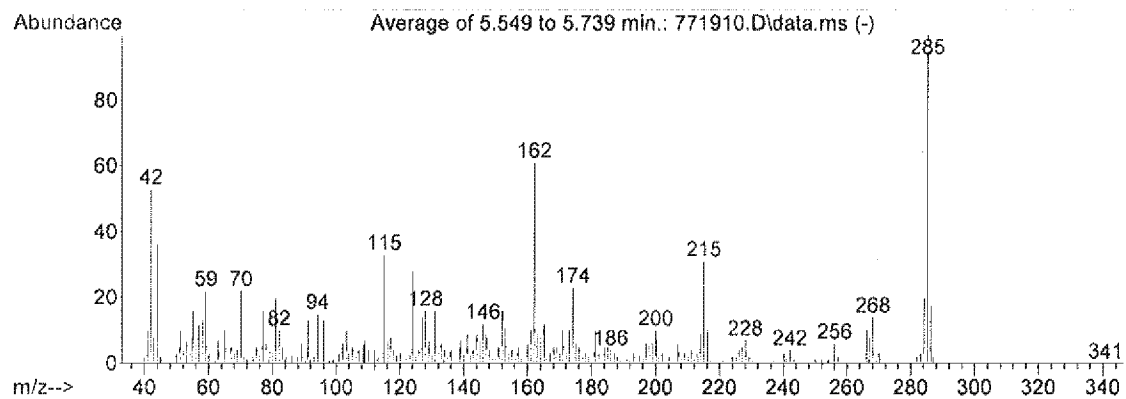


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 2   | 5.61 | C:\Database\NIST05a.L               |             |      |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |

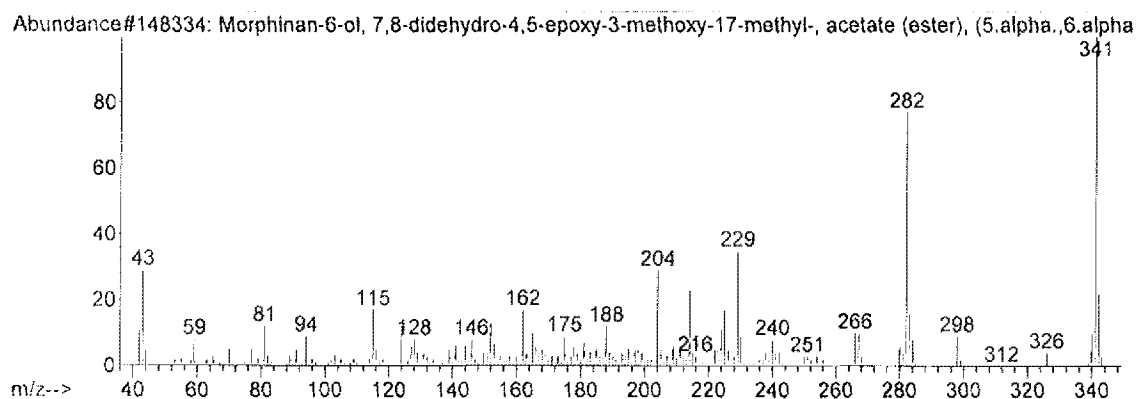
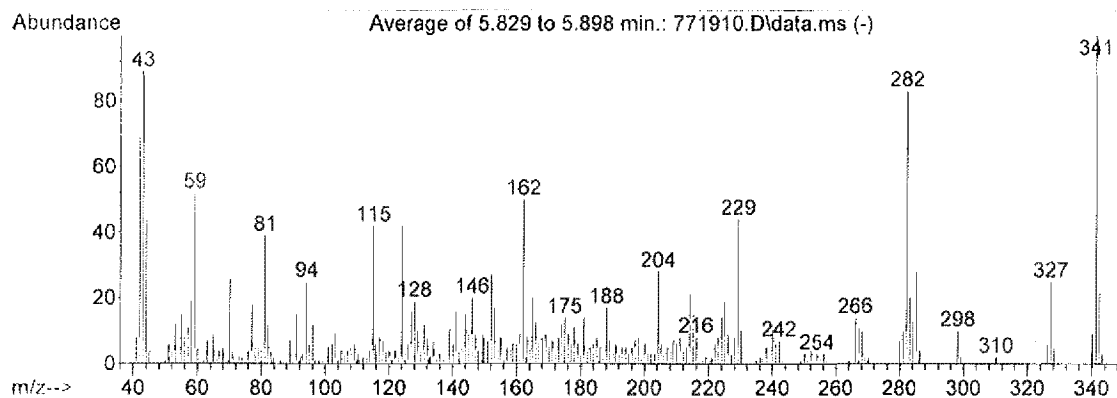


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : XXXXXXXXXX  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#         | Qual |
|-----|------|-------------------------------------|--------------|------|
| 3   | 5.87 | C:\Database\NIST05a.L               |              |      |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 99   |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 99   |
|     |      | Acetylcodein                        | 1000153-00-2 | 95   |



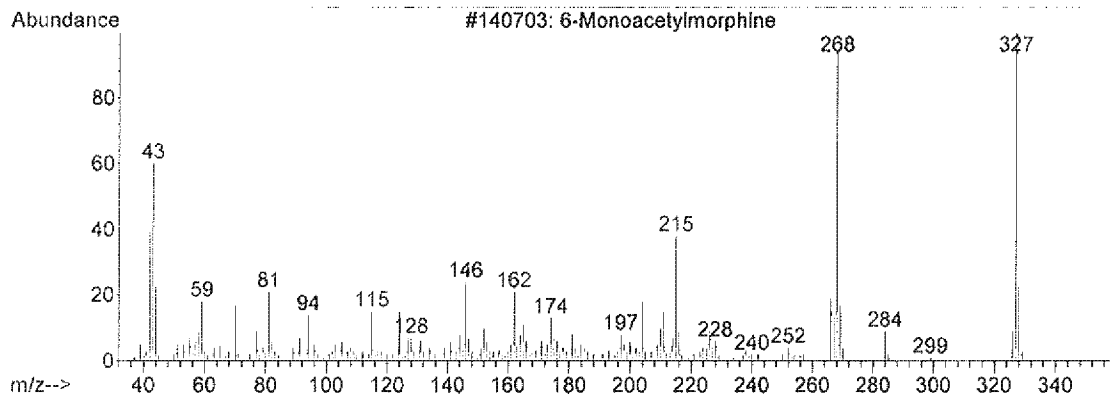
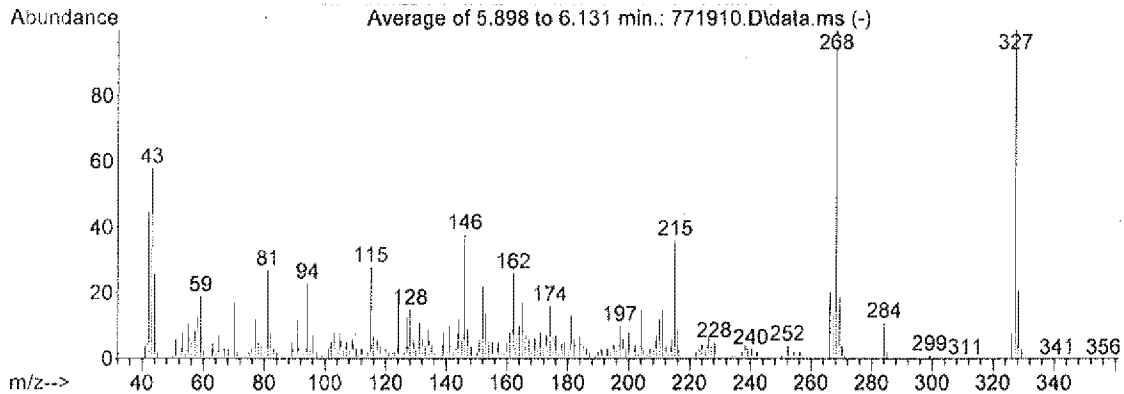


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 4   | 5.95 | C:\Database\NIST05a.L |             |      |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |

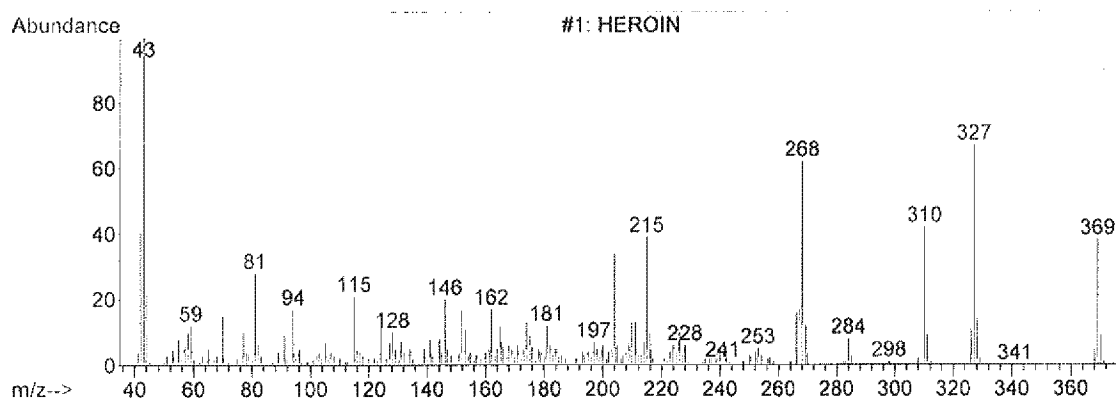
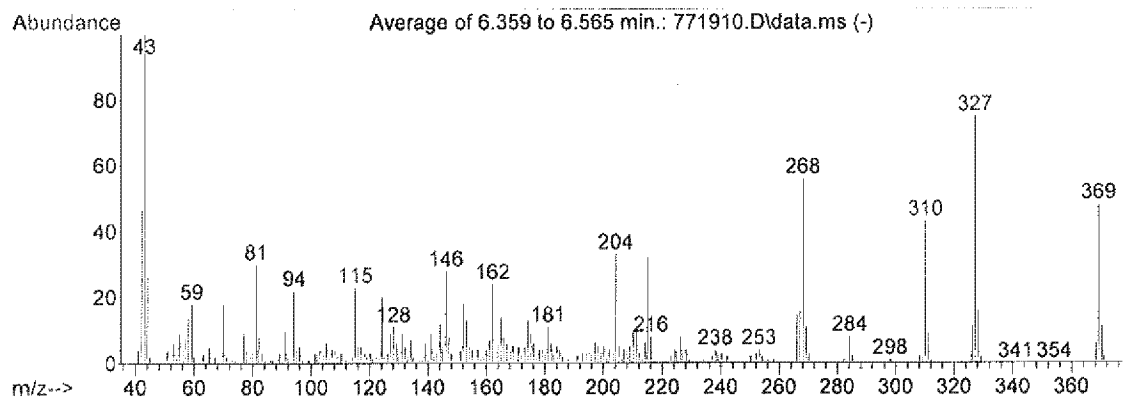


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

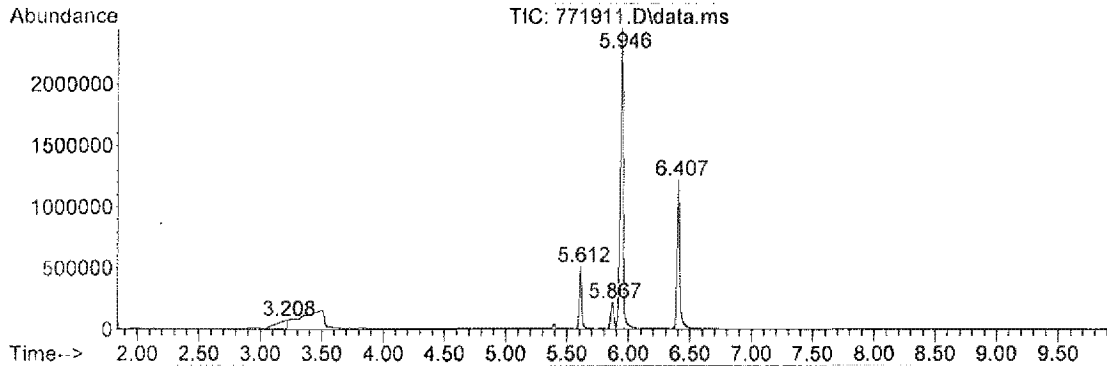
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID        | CAS#        | Qual |
|-----|------|-------------------|-------------|------|
| 5   | 6.41 | C:\Database\SLI.L |             |      |
|     |      | HEROIN            | 000561-27-3 | 99   |
|     |      | JWH-073           | 208987-48-8 | 2    |



## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



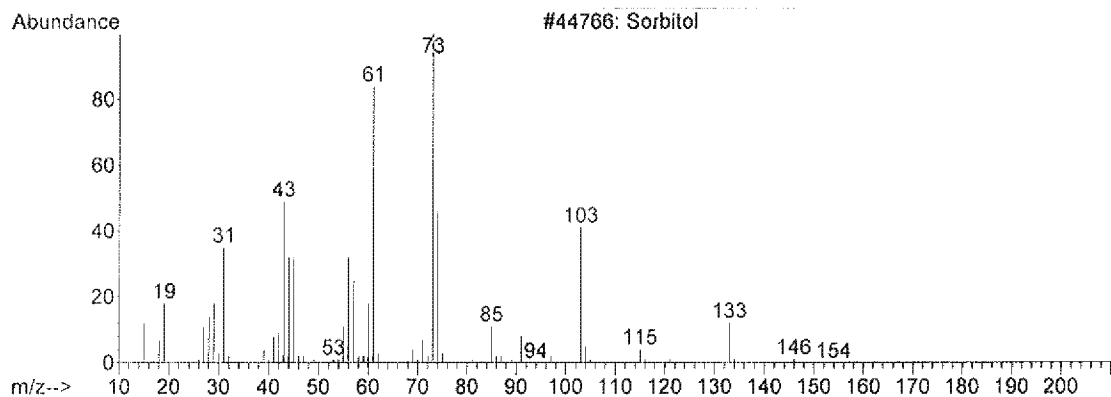
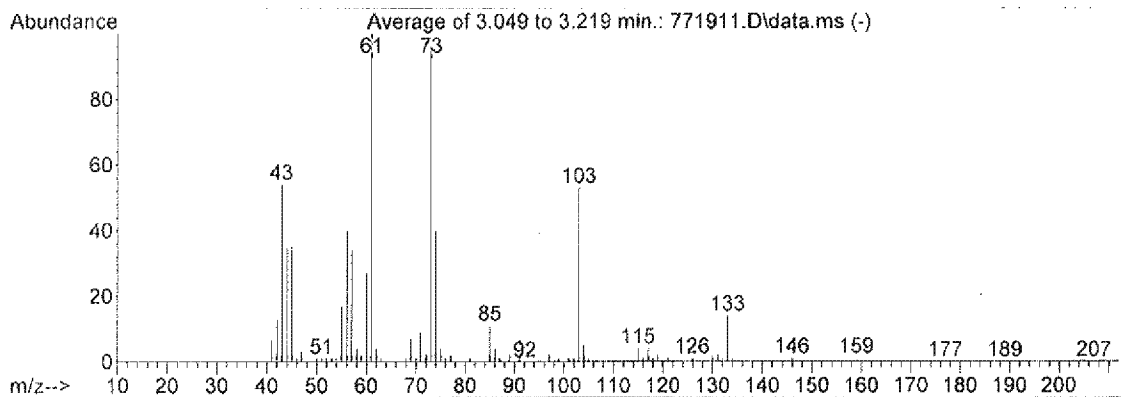
| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.208     | 404964  | 5.32   | 9.62    |
| 5.612     | 713169  | 9.37   | 16.94   |
| 5.867     | 351629  | 4.62   | 8.35    |
| 5.946     | 4210108 | 55.33  | 100.00  |
| 6.407     | 1928628 | 25.35  | 45.81   |

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 1   | 3.21 | C:\Database\NIST05a.L |             |      |
|     |      | Sorbitol              | 000050-70-4 | 87   |
|     |      | Sorbitol              | 000050-70-4 | 86   |
|     |      | D-Mannitol            | 000069-65-8 | 83   |



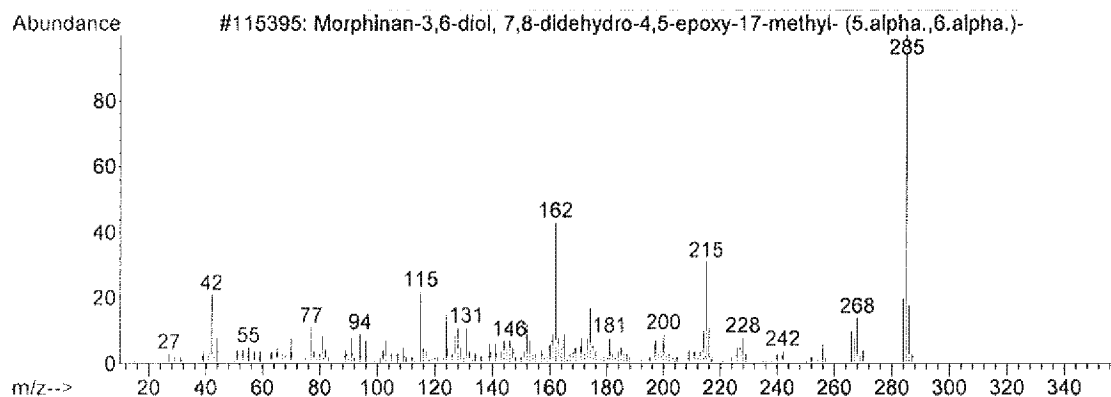
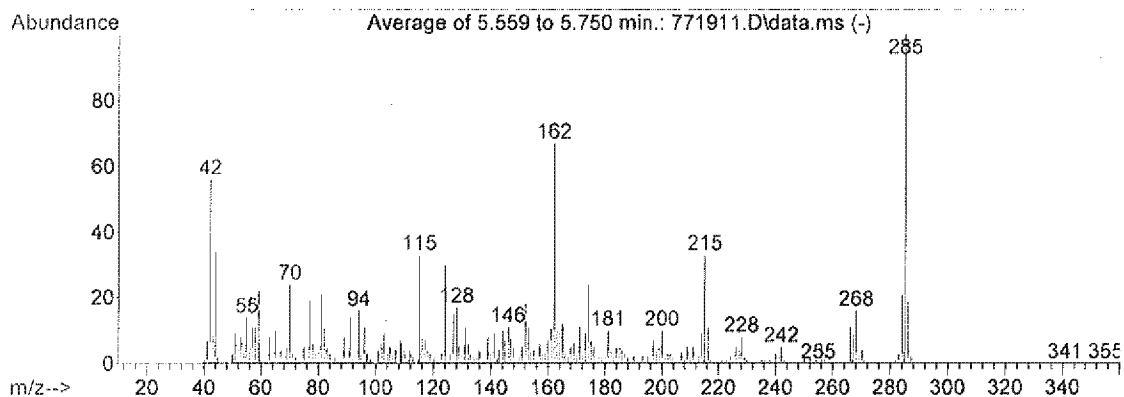
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
 Operator : KAC  
 Date Acquired : 15 Feb 2011 10:54  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 11  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 2   | 5.61 | C:\Database\NIST05a.L               |             |      |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |
|     |      | Morphinan-3,6-diol, 7,8-didehydro-4 | 000057-27-2 | 99   |



Information from Data File:

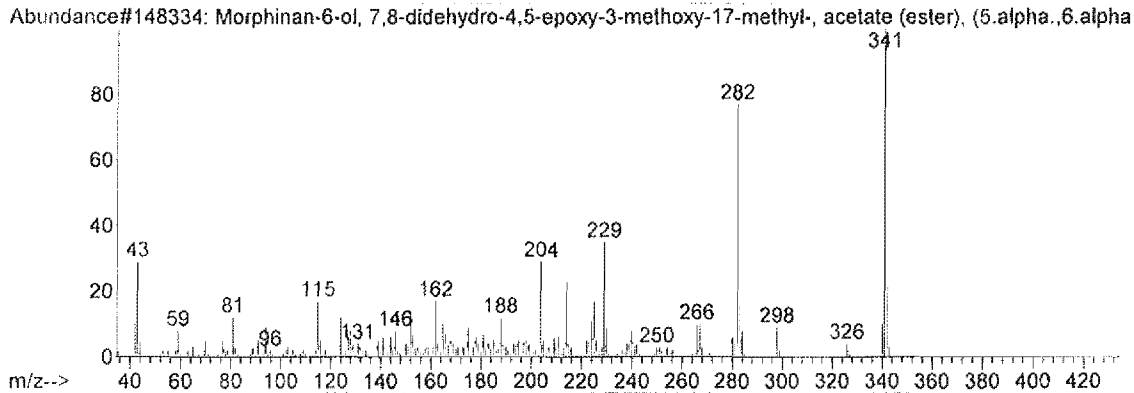
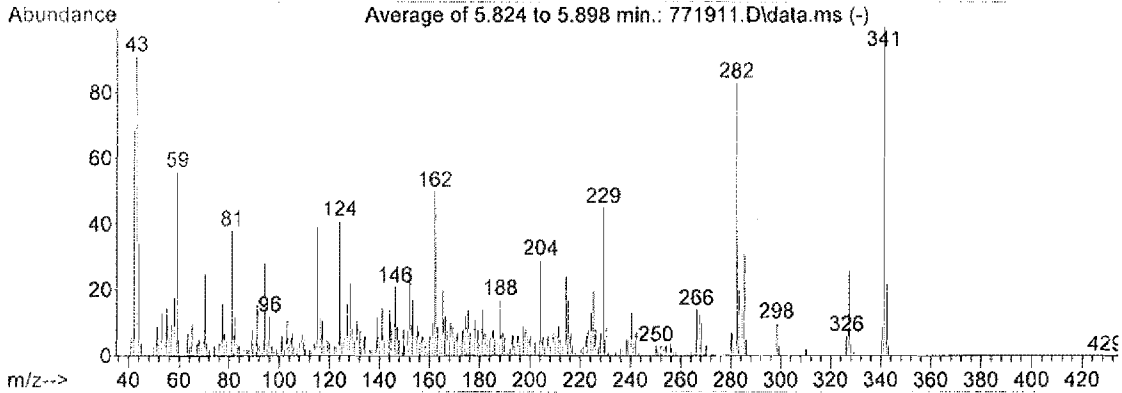
```

File Name       : F:\Q1-2011\System7\02_15_11\771911.D
Operator        : KAC
Date Acquired   : 15 Feb 2011  10:54
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 11
AcquisitionMeth : DRUGS.M
Integrator      : RTE
  
```

```

Search Libraries: C:\Database\SLI.L           Minimum Quality: 80
                  C:\Database\NIST05a.L       Minimum Quality: 80
                  C:\Database\PMW_TOX2.L
  
```

| PK# | RT   | Library/ID                          | CAS#         | Qual |
|-----|------|-------------------------------------|--------------|------|
| 3   | 5.87 | C:\Database\NIST05a.L               |              |      |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 99   |
|     |      | Morphinan-6-ol, 7,8-didehydro-4,5-e | 006703-27-1  | 96   |
|     |      | Acetylcodein                        | 1000153-00-2 | 95   |

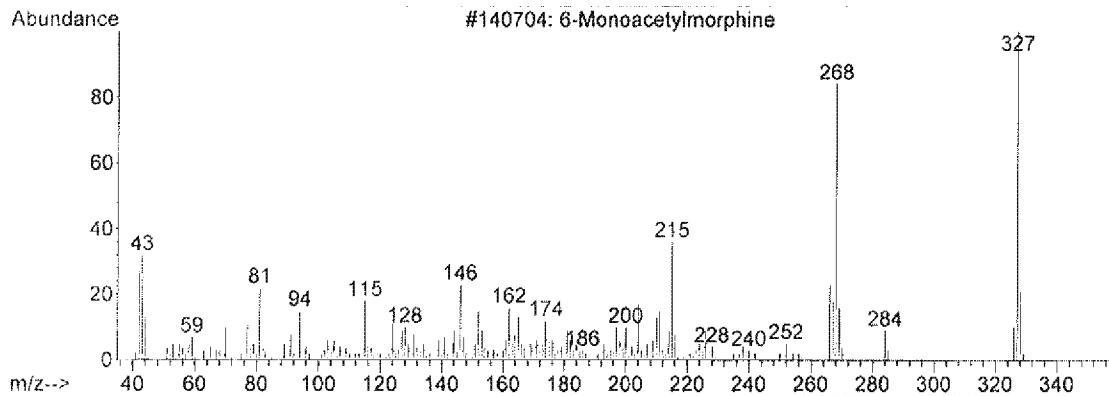
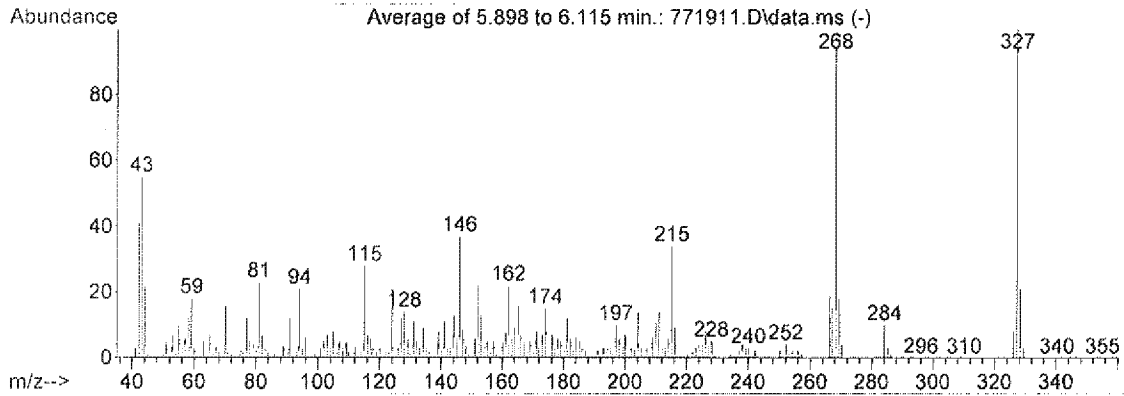


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 4   | 5.95 | C:\Database\NIST05a.L |             |      |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |
|     |      | 6-Monoacetylmorphine  | 002784-73-8 | 99   |

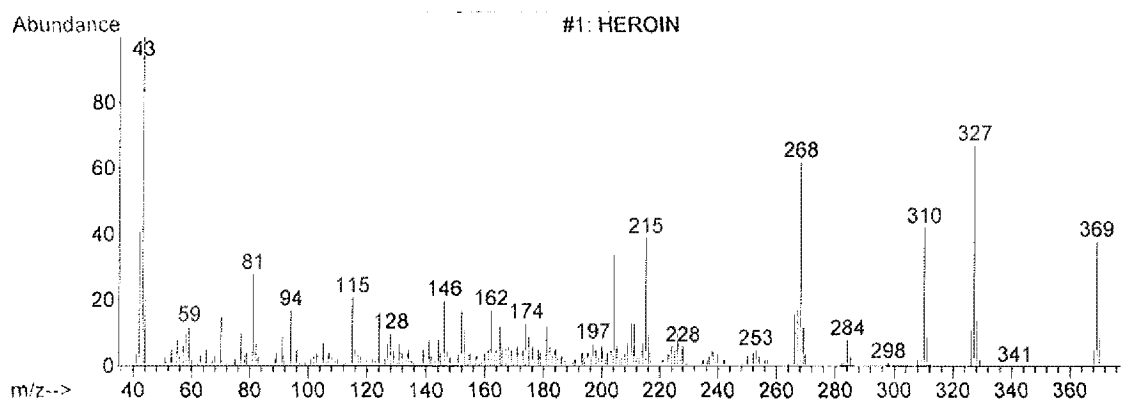
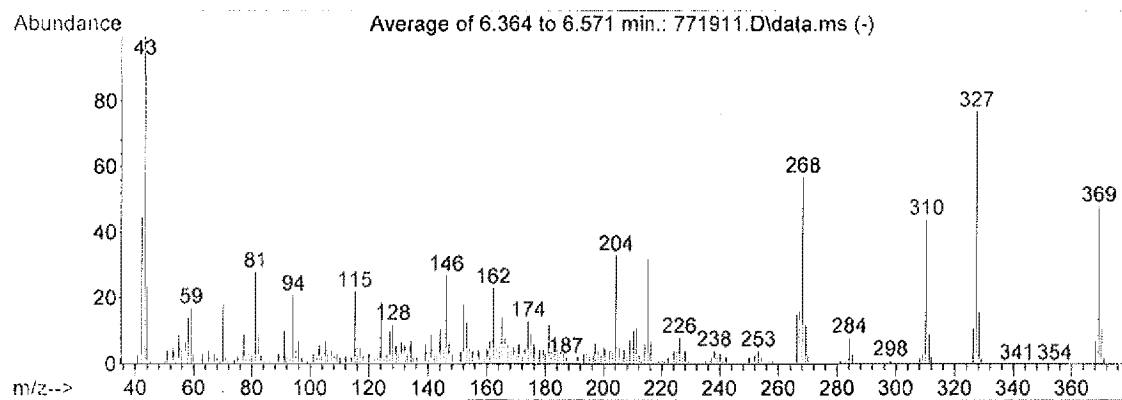


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

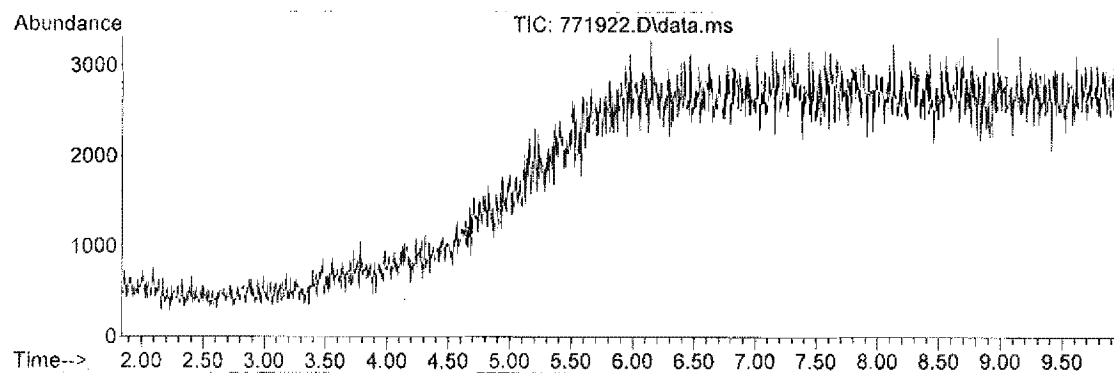
| PK# | RT   | Library/ID        | CAS#        | Qual |
|-----|------|-------------------|-------------|------|
| 5   | 6.41 | C:\Database\SLI.L |             |      |
|     |      | HEROIN            | 000561-27-3 | 99   |
|     |      | JWH-073           | 208987-48-8 | 2    |





## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771922.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 13:12  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

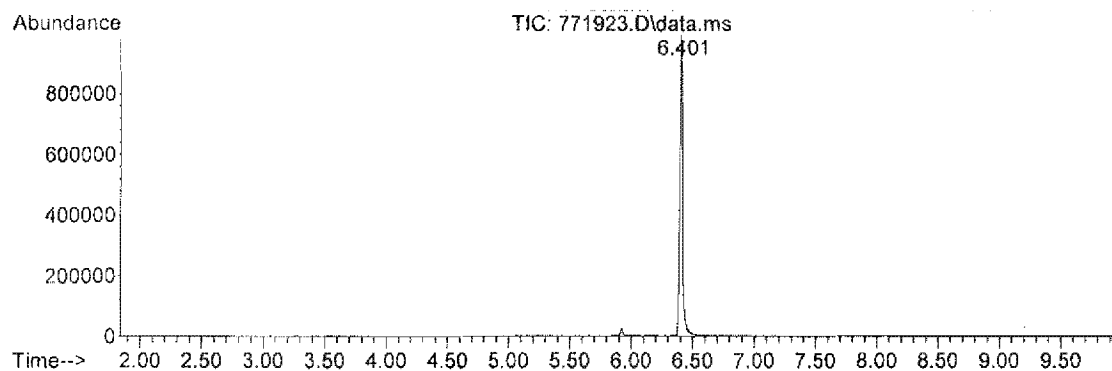


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771923.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 13:25  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 23  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

|       |         |        |        |
|-------|---------|--------|--------|
| 6.401 | 1598308 | 100.00 | 100.00 |
|-------|---------|--------|--------|

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771923.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 13:25  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 23  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                  | CAS#        | Qual |
|-----|------|-----------------------------|-------------|------|
| 1   | 6.40 | C:\Database\SLI.L<br>HEROIN | 000561-27-3 | 99   |

